

MII

Users Association of America

c/o Gady-McGrath International • 8580 Cinderbed Rd. Ste 1000 • Newington, VA 22122
(800) 966-1030 • (703) 339-8500 • Fax (703) 339-0764



MII Playback

Monthly Newsletter of the MII Users Association of America

June 1992

Vol. 2, No. 3

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The opinions expressed in this publication are those of the individuals quoted and do not necessarily reflect the position of the MII Users Association of America or its members.

MII Users Association of America
c/o GMG International Inc.
8580 Cinderbed Rd, Suite 1000
Newington, VA 22122



Commentary from the Executive Director

"The Original Owners MII Subcommittee"

You may or may not have heard about or been part of a recent petition drive that occurred during the late May - early June time frame. In an effort to address concerns of older MII equipment users (The equipment being "older", not the users), fellow member Lloyd Reed was assigned to the position of Original MII Users Subcommittee Chairman. Over the years it had become evident that owners of original MII Units (ie. AU-400, AU-500, AU-650, AU-660, AU-60 and even JVC MII units) had special needs which were not always addressed in the effort to support the rush of new MII model equipment owners that has resulted with the format's wider acceptance. Lloyd Reed, along with other members, had intimated to me that special representation of this group was needed. As one of these original owners, I certainly could relate to this need and since Lloyd had been so gracious to "volunteer" to represent this special segment of our membership, he was appointed.

What followed was an exercise in the true function of this organization. Issue one for the subcommittee covered the fact that Panasonic had never been clearly defined whether or not the older MII gear was to be covered under the enhanced service support auspices of the innovative "Project 2000" dealer program. This program guaranteed such benefits as service response to repair a unit within 48 hours (or use of a loaner unit would be guaranteed). The Project 2000 program was part of Panasonic's widely hailed endeavor to make MII more accessible to the market place through the dealer network. The program has paralleled the heavy marketing and sales of newer units such as the AU-62, AU-63, AU-65, AU-520, AU-410 and most recently, the MII H series.

Lloyd subsequently led a fax and mail petition drive using MII User Association resources to locate owners of older MII equipment. He solicited their support for Panasonic's clarification of the issues with the following letter.

May 20, 1992

Attention owners of AU-500's, AU-650's, AU-60's, AU-660's and other Original Model Panasonic MII Equipment.

Welcome to the Original MII Owners Subcommittee! We are the earliest users of the MII format. We pioneered the use of the format, endlessly explaining the advantages of MII to our clients, spouses, partners and lenders (sometimes the same person), and the community at large. We took the largest risks, both financially and professionally. We have the most experience in the use of the MII format.

In the early days, many of us repeatedly had our judgement called into question: "Why not one inch?...Why is it better than 3/4 inch?...If it is so much better than Betacam, why hasn't anybody heard of it?...Then later,...Why is it better than Sony's response to MII, Betacam SP?...S-VHS is so much cheaper, why not use S-VHS instead?...Oh, you can use it in combination with S-VHS?...Hmmm...interesting!"

Meanwhile, as Betacam and Betacam SP began to be used as interchangeable words by the less than scrupulous, no one has explained the differences between Betacam and Betacam SP and MII better or more often than the original MII user. As U-matic SP was introduced, the industry already seemed to know that it was the death rattle of 3/4 inch as a production format and stayed away in droves. As Panasonic continued design development and the new, lower priced models were introduced, our colleagues have come to see that our early decision to use MII was smart and prescient. More and more of our colleagues in corporate and broadcast are converting to the versatile MII format as a cost effective way to obtain or maintain high quality visual images in these uncertain economic times.

We, the original users of MII are no longer seen as eccentric risk takers, but are now considered Opinion Leaders by our peers. Our opinion matters!

Recently, Panasonic introduced a fabulous new program called Project 2000. To my shock and dismay, the original MII are not participants in this program. To neglect the original owners of MII is to shake the foundations of the format. We older folks remember the late and unlamented original M format. We are still suffering the negative reverberations of Panasonic's unfortunate neglect of the original M format users. Many of those early users converted to Betacam SP, while pointedly not considering MII. Many early users of MII suffered from a credibility gap, as Panasonic was perceived to have abandoned M format users.

We, the original owners of MII equipment have a number of technical and political issues to be addressed. Some of us are sure to be the original user of new Panasonic formats, while others of us will continue to be active MII users in the coming years. Some us will do both.

How the original users are treated by Panasonic will help to determine the value of everyone's investment in MII as well as in future Panasonic formats. The original MII owners must be heard! Our Concerns must be addressed!

Our first order of business is attached below. Please review the petition to Panasonic immediately requesting a review of the current Project 2000 policy. If you agree, we would sincerely appreciate your signature and fax it back to MII Users Association headquarters. (703)339-0764 as soon as possible.

As an original MII owner, join the Original MII owner's Subcommittee and let your views be known!



*Lloyd Reed, Chair
Original MII Users Subcommittee*

We/I the undersigned, member(s) of the Original Panasonic MII Owners subcommittee of the MII Users Association of America, and owner(s) of original model Panasonic MII equipment, support the following resolution.

We resolve to respectfully request that Panasonic immediately and at no charge provide all updates and design enhancements to any original model Panasonic MII equipment sent to them by an original MII owner and provide confirmation that all Panasonic MII models will be included in the service program benefits offered by Panasonic's Project 2000.

In lieu of this requirement Panasonic may opt to take original Panasonic MII equipment at fair market value as trade-ins for newer model equipment currently under the auspices of Project 2000. (Hopefully the older units can be donated by Panasonic to Non-Profit organizations and Universities to spread the MII message.)

Signature and Date

Printed Name & Title

Company Name

Address

Phone Number

Original MII Models _____

Lo and behold, the faxes and letters began to pour in to Association Headquarters. I contacted Panasonic headquarters representatives and arranged an urgent meeting to confront the issue head on. They were quite receptive to the petition drive and on June 3, 1992 at Panasonic Headquarters, Lloyd Reed and myself met with Bob Mueller, Bill Bakonyi, Bob Garino, Alec Shapiro and Jerry Spencer to review the concerns of the loyal original users.

Many issues were discussed and new avenues of communications were open to not only respond to the Original Owners petition, but also more clearly define the benefits of Project 2000 to all users. Within one week, as promised by Mr. Mueller, the following response was received by the association.

June 12, 1992

*Mr. David Gardy
MII Users Association of America
c/o Gardy-McGrath International
8580 Cinderbed Road STE 1000
Newington, VA 22122*

Dear David;

Thanks very much for the generous time you and Lloyd Reed devoted to our meeting in Secaucus last week. Many important issues came to light and the insights provided are sincerely appreciated.

Regarding MII service support, Panasonic fully supports the MII format and our end-user overall. The recently announced Project 2000 program encompasses a full range of MII sales and service assistance, with it's primary goal to provide before, during and after sale support to all MII customers.

To meet this goal, Panasonic has designed, in conjunction with our authorized MII dealers, a 24 hour a day, 365 day a year support network. All MII users are to be provided with a consistent high level of technical service support whether service is requested directly from Panasonic or through our authorized MII dealers response to customer service calls is targeted within 90 minutes.

Customers requiring service should expect to be back on line, typically, within 48 hours. This level of support is achieved by a combination of dealer and/or Panasonic resources as circumstances dictate. Response can take the form of either technical information over the telephone, to actual on site, or off site repair. This objective, at times, may be achieved by the use of loaner equipment to keep customers on line within the guidelines illustrated above.

Panasonic provides this service support for equipment under warranty at no charge to the owner. If a customer's unit is out of warranty, the customer will be offered the same option, at prevailing market rates. In either case, the objective is to provide all our customers a high level of service support response and problem resolution in a specified time frame.

Panasonic and our authorized MII dealers are committed to providing this level of support to all

our customers, regardless of the method of original purchase or vintage of MII machine.

Hopefully, this clears the air satisfactorily for our MII users including the members of the MII User's Association.

Warmest Personal Regards,



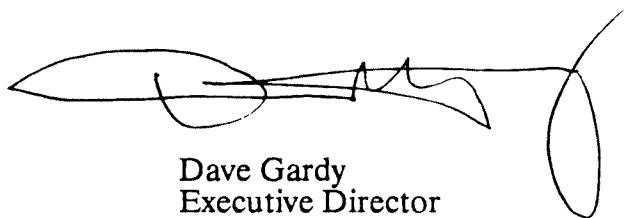
*Bob Mueller
General Manager
Professional Audio-Video Division*

Subsequent conversations with Mr. Mueller and Mr. Bart Kulesz revealed that the term "prevailing market rates" referred to the policy of a one-time rental charge for loaner units of \$200 and current hourly repair rates at either a Panasonic authorized service center/Dealer or Panasonic headquarters in Secaucus, NJ. The one-time charge meant that the loaner would stay on site indefinitely until repairs on the original unit could be effected. In addition, although the trade-in idea was being researched, Mr. Mueller did not see implementation of such a policy as a feasible option for Panasonic at this time.

It should be noted that during any service or repair by an authorized service center, Panasonic will provide software updates on all units at no charge as part of the support package, providing old PROMs are returned (otherwise a \$50.00 charge will be levied for each PROM). A listing of software updates for all units are included in this issue.

There you have it. An excellent example of the interface which should take place on many issues in the video industry. Thank you Lloyd Reed. Hopefully the Original Users Subcommittee will serve as a precedent for other special interests within the association to utilize the association as a vehicle for positive action.

One more note of interest - In this issue, you'll find an article on a special promotion for members of the MII Users Association who wish to purchase H-series MII equipment. Up to \$500 in "reward" money, direct from Panasonic, in addition to the competitive pricing already being offered through the dealer structure.



*Dave Gardy
Executive Director
MII Users Association of America*

Editors note: You can reach the association at (800)966-1030, (703)339-8500, fax (703) 339-0764 or by mail: MII Users Association of America, c/o Gardy-McGrath Int'l Inc., 8580 Cinderbed Rd, Suite 1000, Newington, VA 22122

GMG Files Agency Protest to Naval Imaging Command On MII Format Exclusion...And Wins!

Gardy McGrath International, Inc. (T/A GMG International) through its counsel, Cohen & White, recently filed an agency protest to the Naval Imaging Command concerning the specification of Betacam SP as the acquisition format for several recently issued bid solicitations.

The solicitation stated, *"The production will be produced in 1/2 inch "Beta Cam" video format, using film style production technique."*

The agency protest which Gardy-McGrath filed stated the following. *"...In Gardy McGrath's case, the Navy's requirement that the videotape be produced in 1/2 inch Beta Cam video format is unduly restrictive. The Beta Cam format, which is proprietary to Sony Corporation, is not the only videotape format available that meets the solicitation's specifications for resolution, signal to noise ratio, window burn-in and the like. The MII (pronounced "M Two") format manufactured by Panasonic is a 1/2 inch video format that meets or exceeds Beta Cam specification. If not blocked by the Navy's restrictive specification, Gardy McGrath could shoot the videotape using Panasonic's 1/2 inch MII videotape format, edit the tape, and then produce the master tape on one inch Type C composite, all as required by the solicitation.*

The MII format is well accepted in the video industry. For example, NBC uses Panasonic's MII format in its network programming. Moreover, Panasonic's MII format is less expensive than Sony's Beta Cam format, which would allow Gardy McGrath to reduce its costs and pass the savings on to the Navy.

By way of analogy, the Navy's insistence that offerors produce the tape in Beta Cam format is no better than forcing a contractor to use an IBM Personal Computer in a procurement for a training manual. If an agency needs a training

manual for its personnel, it simply does not matter whether the contractor uses an Apple Macintosh, Compaq or Radio Shack computer to write the manual. To insist that a contractor use an IBM computer to perform would be unduly restrictive when the contractor could use competing computers just as well.

Returning to Gardy McGrath's case, the deliverable in the Navy's RFP is a videotape production. Accordingly, the method of performance, which is not a deliverable, must be left to Gardy McGrath's discretion. Accordingly, it is unduly restrictive for the navy to force Gardy McGrath to use Beta Cam format to produce the videotape when MII format would meet the Navy's minimum needs as well..."

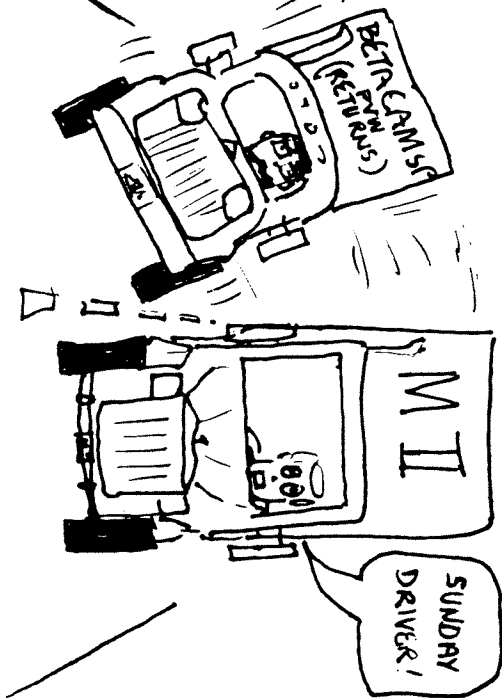
The Naval Imaging Command in responding stated, *"...It is not the intention of this command to restrict competition by stating "Beta Cam", as this seems to be a format most used by the industry and equipment is so often rented...we will issue a notice to all offerors responding to our FY92 solicitations giving them a choice of producing in 1/2 inch "Beta Cam" or "MII" video format, using film style production technique..."*

And issued the following amendment to the solicitations. *"...All FY92 Solicitations issued by the Naval Imaging Command can be produced in 1/2 inch "Beta Cam" or "MII" video format, using film style production technique..."*

Gardy McGrath is currently pursuing a similar protest with the Joint Visual Information Activity which has also issued solicitations specifying only Betacam SP.

The Association encourages other MII users who are restricted by Federal, State and Local government activities in this manner to contact Association Headquarters for assistance.

"ME TOO!" WELCOME TO THE FRATERNITY!



SUNDAY
DRIVER!


$$H^1(M, \mathbb{R}) \cong \mathbb{R}^2$$

BILL IS A VERY
TALENTED GUY!!!

॥ श्रीगणेशाय नमः ॥

HELLO, THIS IS
BILL.
I'LL TRY DAVE,
BUT I DON'T THINK
THEY'LL GO FOR A
FREE BENDVA
TRIP WITH EVERY
M II PURCHASE!

MOST OF ALL - HE'S BEEN A
 FRIEND TO THE USERS
 ASSOCIATION. A
 GUY WHO KNOWS
 HIS PRODUCT
 AND HAS THERE
 TO HELP! WE
 SALUTE BILL BARNY!



News Briefs

MII To The Rescue

From John Getz, Chief Engineer, WPGH-TV,
Pittsburgh, PA

Another local TV station went off the air around 6AM. At noon I received a call from them requesting assistance. They reported that they had a problem with the microwave link from their studio to their transmitter and were unable to get back on the air.

We grabbed an AU-650, two AU-62's, and a stack of 60 minute tapes before heading across town to their studios. When we arrived at their studio we put the output from their Master Control switcher into the AU-650. At 1:35PM we had them start recording the hour of programming scheduled for 3PM. At 2:35PM they switched tapes and started recording the hour of programming scheduled for 4PM.

While this was going on, we transported the two MII players to the transmitter site and connected one of them directly into the transmitter. The tape containing the 3PM programming arrived at the transmitter site at 2:50PM and we started airing it at 3PM. At 4PM we switched to the second MII player (by moving the audio and video connectors) and started playing the tape containing the second hour of programming.

During all this another of our technicians determined that the problem was in the microwave transmitter. He proceeded to find and replace a bad capacitor. At 5PM we switched the repaired microwave link back into the TV transmitter and the station was back to normal. Just another day for MII!!!

MII H-Series in Richmond

Richmond, VA

HealthSouth Medical Center's orthopaedic research department in Richmond, Va., was the first in their area to receive the new MII-H series VCRs (3 AU65-H). They upgraded from 3/4" U-Matic-SP for the recording of arthroscopic procedures and editing of those tapes for physician's presentations at medical conferences worldwide. "The higher quality picture, smaller cassette size, 90 minute tapes and Panasonic's commitment to service were the most important factors in the decision to upgrade to MII. Our dealer (AVEC Electronics) was kind enough to provide us an AU-65 for testing. The comparison tapes were most convincing and although the Betacam was comparable in playback to the eye, we preferred the features and service record of the Panasonic MIIs."

HealthSouth Medical Center and Orthopaedic Research of Virginia have a considerable amount of video equipment for a medical video department; 3 MIIs, 12 3/4" U-Matics, 8 S-VHS, 2 Toasters, 2 A/B

Roll Editing suites, operating rooms equipped with Hitachi HV-C10s on Telemetric Camera trollies in the ceiling.

Our orthopaedic physicians are the best in the world at what they do and expect us to provide them with the best in video support for their research and presentations. They have an extensive library of tapes which they receive international requests for copies. We are just starting down the MII road but hopefully with Panasonic's help, it will be a smooth ride.

GMG Completes Environmental Video for the US Army

Newington, VA

Gardy-McGrath International, Inc. under contract with Ocean City Research Corp., has completed production of a twenty-minute informational videotape highlighting the Army Acquisition Pollution Prevention Support Office, or AAPPSSO, for the United States Army Materiel Command. The purpose of the presentation is to educate Army requisition management personnel in the methods of pollution prevention in the purchasing phase through judicious acquisition of environmentally friendly products. The videotape features the Red River Army depot, located in Texarkana, Texas, which repairs and reworks a wide range of military hardware utilizing a variety of industrial technologies designed to reduce pollution. The production, which was shot and post-produced on MII, incorporated stock footage supplied by BASF, AT&T and 3M to demonstrate successful pollution prevention efforts in the private sector. The videotape will receive service-wide distribution among Army materiel personnel.

Gardy-McGrath International, Inc., to date has produced numerous environmental presentations for its government, defense and corporate clientele. Productions have included a documentary for the Office of the Secretary of Defense in support of OSD's environmental awareness program, a public service information tape for the Northern Virginia Planning Commission which demonstrated to homeowners the assistance available to them in prevention of lake and river pollution caused by failure of septic systems, and most recently, an award winning video produced for Naval Air Station at Miramar which highlighted the Station's Natural Resource Management Program.

Gardy-McGrath International, Inc., one of the largest full-service production houses in the mid-Atlantic region, is currently based in Newington, Virginia. The company will be moving to new, expanded facilities in Reston, Virginia in early August.

MII Trained Summer Interns Available

Question: What has 5 full MII on-line suites, 8 MII camcorders, 3 MII cuts-only suites, a digital audio workstation that lays audio back to MII, 7 Video Toasters, a Steadicam EFP and much, much more?

Answer: The Savannah College of Art and Design, one of the best equipped colleges in the USA, and certainly the largest MII teaching facility.

Obviously our students are trained on the best Panasonic equipment in the world, and, as students, they are eager to work as a summer intern in your MII production facility. Students at SCAD come from all over the 50 states and would be interested in an internship in their home state.

If you are interested in having a summer intern, call: John Drop, Video Department Chair, (912)238-2407, fax (912)238-2456
SCAD Video Department
235 Habersham Street
Savannah, GA 31401:

MII Job Shop

A forum provided to the membership to publicize both employment opportunities and talent availability for MII expertise. We will publish your help wanted or position wanted ad, (anonymity protected if requested). Please send all employment opportunities, resume's, adcopy, etc. to the association. Our current offerings are: *Help Wanted Experienced MII Editor*, must be willing to relocate to the Washington, DC area, salary commensurate with experience. ref. #9202A

Experienced Amiga Graphic Artist, 2-D and 3-D Capability, familiarity with MII desired, must be willing to relocate to the Washington, DC area, salary commensurate with experience. ref. #9202B

Send resumes and sample tapes to the Association, please state which position you are interested in.

All responses will be kept in strictest confidence.

Additional Users Awards Available

If you were recipient of a *Gold, Silver or Bronze* MII Users Award and you are interested in obtaining additional awards, they may be ordered from the Association. The cost will be approximately \$30 (depending on what is engraved) plus shipping. Additional *Special Award of Merit* certificates are available too. Please call Debbie for further details (800) 966-1030.

Maintenance Software Available

Brian Roos, the Senior Field Engineer for Panasonic's Broadcast Engineering and Service Division in Norcross, Georgia, has developed a computer database with step-by-step instructions for performing routine maintenance on most models of Panasonic MII equipment.

The instructions found in this database are meant to be a "user friendly" companion to the maintenance procedures found in Panasonic's service manuals. Procedures for adjusting RF, A/C heads, tape tension, linear audio, and mechanical presets are included; as well as a flow chart illustrating the proper order in which to make these adjustments.

Although not 100% complete the database provides information for the following models: AU-400, AU-410, AU-500, AU-550, AU-60, AU-650, AU-620, and AU-65. The database has an easy-to-use interface for viewing files, and you can print out hard copies of each procedure.

Copies of this program are available from the Association. Just call the Association at (800)966-1030 and we'll send a disk to you. We appreciate the effort Brian has put into this project, and we'll provide updates as he adds information about the rest of the MII line.

MII Duplication Facilities

If you are a duplicator, or if your facility does duplication in addition to its other services, and you are an MII User. The Association needs to know about it. We are compiling a listing of MII Duplicators that we'll run regularly in the newsletter. Please contact the Association to be included in the listing.

Currently our list includes:

Action Video Productions,
American Production Services, Seattle, WA (206)282-1776
Greenville, SC (803)297-8865
Advanced Audio Video, Denver, CO 800-668-0406
American Magnetic Media, Denver, CO 800-USA-TAPE
AME, N.Hollywood, CA 800-336-3827
Cassette Dub Inc., Northvale, NJ (201) 767-7077
CenterCom, Milwaukee, WI (414)353-2001
Commonwealth Films, Richmond, VA (804)649-8611
Copymaster Video, Villa Park, IL (708)279-1276
ECI, Dallas, TX 800-880-9400
HAVE, Inc., Hudson, NY (518)828-2000
Global Vision, Reisterstown, MD (301)356-6715
Industrial Audio Video, Houston, TX (713)535-2375
Industrial Communications, Birmingham, AL (205)942-0132
MagneTech, Ft. Lauderdale FL 800-683-DUPE
Master Images Video Duplication, Inc. Northbrook, IL (708)564-0470
Media Concepts, St. Petersburg, FL (321)2122
Multi-Magnetics, Denver, CO (303)825-7768
Park Avenue Productions, Richmond, VA (804)346-3232
Preston Trucking, Preston, MD (410)673-2930
Vaughn Communications:
Minneapolis, MN (800)323-0281,
Creve Coeur, MO (314) 576-6804,
Phoenix, AZ (800)228-7609,
Milwaukee, WI (414)276-6511,
Tampa, FL (800)252-7564,
New York, NY (212)447-1038,
Portland, OR (800)772-2251,

Atlanta, GA (800)966-0859,
Irvine, CA (800)228-7609
Video Duplication, Atlanta, GA 800-235-9732
Video Duplication Services, Columbus, OH (800)289-4301
Videoland, Lacey, WA (206) 491-1332
Video Replay, Chicago, IL (312)467-0425
Video Transfer, Rockville, MD (301)881-0270
Wilderness Productions, S. Lake Tahoe, CA (800)874-7488
in CA (916)577-3008
WJZY-TV Charlotte, NC (704)398-0046

If your company isn't listed here and should be, please
call, Debbie at (800)966-1030.

MII Rentals

If your facility rents MII equipment out, and you'd like
others to know that fact, let us know. We are
compiling a list similar to the duplication facilities list.
We need to know what MII equipment you rent out.
Call Debbie at (800)966-1030 to be added to the
upcoming listing.

Toaster Users...

We will be running Toaster articles in future issues of
the "MII Playback". If you have any questions or
specific areas you'd like to see addressed in future
articles. Please send your material to the MII Users
Association at the address listed below.

Association Membership

If you are not currently a member of the MII Users
Association of America and are interested in joining.
Please fax or mail us the following information:
company name, contact persons name, mailing
address, phone and fax numbers (if available), if you
do or do not have MII and which machines (make &
model) you have.

We may be contacted at:

MII Users Association of America
8580 Cinderbed Rd., Suite 1000
Newington, VA 22122
Attn: Debbie

Or you may fax us at (703) 339-0764,
Toll free phone # (800)966-1030

*If you have any recent happenings, or if you'd like to tell
us about your facility. Send us your press release, fill out
one of our press release forms, or write us a short article
(it's ok to send us photos too! Just let me know if you
want them back.) and we'll print it in the "MII Playback".
Please mail or fax your information to the association.*

*Fax (703)339-0764
MII Users Association of America
c/o GMG International, Inc.
8580 Cinderbed Rd. Suite 1000
Newington, VA 22122*

Announcing A Special MII "EnHanced Series" Promotion

Panasonic is pleased to announce a special
"Loyal MII User Appreciation" Promotion on
the new "EnHanced Series" MII products.

Any current MII user that purchases an
"EnHanced Series" MII VTR from an
authorized MII Dealer between July 1 and
August 31, 1992 will be eligible for a reward
of between \$250 to \$500, depending on the
model purchased.

For purchases of an AU-65H the customer
will receive a \$500 reward. An AU-63H
purchaser will receive a \$300 reward, while an
AU-62H purchaser will receive \$250.

To apply for the reward, simply purchase any
quantity of the above listed products between
July 1 and August 31, 1992, and send the
"Loyal MII Customer Appreciation" reward
claim form and a photocopy of the invoice,
proof of purchase (photocopy of check or
purchase order) and the completed warranty
cards to Panasonic. "Loyal MII Customer
Appreciation" reward claim forms are
available only through the MII Users
Association of America. Customer must
contact the MII Users Association of
America to arrange to receive a claim form.

Reward amounts shown are per unit
purchased. "Loyal MII Customer
Appreciation" Reward Claim forms must be
received at Panasonic by October 31, 1992.
There is no limit to the number of
"EnHanced Series" MII units that an MII
user may purchase, nor is there any
minimum.

To be eligible for this special promotion, the
purchaser must be a current MII user. This
offer is only for current MII users and will be
advertised ONLY through the MII Users
Association of America.

Please note, that these rewards cannot be
applied toward the purchase price and will be
sent directly to the purchaser.

For further information contact the MII
Users Association (ask for Debbie) at
(800)966-1030 or fax (703)339-0764.

Current MII Software Update List

Current as of April 1992

MODEL #	VSI #	CHECK SUM	REFERENCE NUMBER	TYPE	BOARD LOCATIONS	VERSION DISPLAY	MISC.
AU/650 (PE/SE)	VSI 0378D	3108	IC 8	SYSTEM CONTROL (512K)	SYSCON	V-C <2.4>	WORKS WITH BVE-910 EDITOR
	VSI 0317C	0A89	IC 313	TIME CODE (64K)	SYSCON	NO DISPLAY	FOR COMPONENT TYPE BOARD
	VSI 0539B	F574	IC 305	TIME CODE (128K)	SYSCON	NO DISPLAY	FOR CHIP TYPE BOARD
	VSI 0390B	A88B	IC 7	PE FRONT PANEL (258K)	FRONT PANEL	V-B <2.2>	PE
AU/650	VSI 0379C	7810	IC 7	SE FRONT PANEL (128K)	FRONT PANEL	V-C <2.3>	SE
	VSI 0185H	1C28	IC 73	SYSTEM CONTROL (258K)	SYSCON	V-H <1.8-1.3>	SPECIAL IS NEEDED FOR BVE 910
	VSI 0186H	7007	IC 74	SYSTEM CONTROL (128K)	SYSCON	V-H <1.8-1.3>	OR AGE EDITIONS <11.8-2.1>
	VSI 0186F	37E6	IC 21	TIME CODE (64K)	TIME CODE 2	NO DISPLAY	
AU/640	VSI 1877A	DD90	IC 2	FRONT PANEL (64K)	FRONT PANEL	V-A <1.1>	
	VSI 0286D	2AF1	IC 9	SYSTEM CONTROL (512K)	SYSCON	V-C <1.3>	WORKS WITH BVE-910 EDITOR
	VSI 0317C	0A89	IC 313	TIME CODE (64K)	SYSCON	NO DISPLAY	FOR COMPONENT TYPE BOARD
	VSI 0539B	F574	IC 305	TIME CODE (128K)	SYSCON	NO DISPLAY	FOR CHIP TYPE BOARD
AU/630	VSI 0379C	7810	IC 7	FRONT PANEL (128K)	FRONT PANEL	V-C <2.3>	SAME AS AU/650, AU/60
	VSI 0280B	5C02	IC 9	SYSTEM CONTROL (512K)	SYSCON	V-B <1.2>	
	VSI 0480B	46F0	IC 305	TIME CODE (128K)	SYSCON	NO DISPLAY	
	VSI 0291B	45D3	IC 7	FRONT PANEL (128K)	FRONT PANEL	V-B <1.2>	

MODEL #	VSI #	CHECK SUM	REFERENCE NUMBER	TYPE	BOARD LOCATIONS	VERSION DISPLAY	MISC.
AU/620	VSI 0284D	1E 97	IC 73	SYSTEM CONTROL (258K)	SYSCON	V-D <1.4>	OLD TYPE
	VSI 0285D	9734	IC 74	SYSTEM CONTROL (128K)	SYSCON	V-D <1.4>	OLD TYPE
	VSI 0196F	37E6	IC 21	TIME CODE (64K)	TIME CODE BOARD	NO DISPLAY	SAME AS AU/650
	VSI 0286	71E9	IC 7	FRONT PANEL (64K)	FRONT PANEL	1 0	
AU/620A	VSI 0502B	5886	IC 9	SYSTEM CONTROL (512K)	SYSCON	V-B <1.2>	NEW TYPE
	VSI 0490B	46F0	IC 305	TIME CODE (128K)	SYSCON	NO DISPLAY	
	VSI 0291B	45D3	IC 7	FRONT PANEL (64K)	FRONT PANEL	1 0	
	VSI 05690D	0F15	IC 9	SYSTEM CONTROL (512K)	SYSCON	V-D <1.4>	WORKS WITH BVE-910 EDITOR
AU/60	VSI 0539B	F574	IC 305	TIME CODE (128K)	SYSCON	NO DISPLAY	SAME AS AU/650, AU/60
	VSI 0379C	7810	IC 7	FRONT PANEL (128K)	FRONT PANEL	V-C <2.3>	SAME AS AU/650, AU/60
	VSI 319C	59E6	IC 2	SYSTEM CONTROL (512K)	SYSCON	V-C <2.3>	
	VSI 0683D	9775	IC 7	SYSTEM (1 Meg)	SYSTEM CONTROL	V-D <1.4>	
AU/63	VSI 0685D	BEBC	IC 7	SYSTEM (1 Meg)	SYSTEM CONTROL	V-D <1.4>	
	VSI 0684J	BEEO	IC 7	SYSTEM (1 Meg)	SYSTEM CONTROL	V-J <2.0>	HAS "V" FLOAT MODE
	VSI 0684E	BE1E	IC 7	SYSTEM (1 Meg)	SYSTEM CONTROL	V-E <1.5>	
	VSI 0684E	BE1E	IC 7	SYSTEM (1 Meg)	SYSTEM CONTROL	V-E <1.5>	

Survey Results

Edit Controllers-Comparing July 1991 to April/May 1992

As promised last month, we are presenting the results from both the July 1991 and April/May 1992 survey questions on EDIT CONTROLLERS.

Results of our July 1991 Survey Questions

<i>Edit Controller</i>	<i># of Users Responding</i>	<i>Rating</i>
Paltex Elite	8	Good
Paltex Elan	6	Very Good+
Edit using front panel controls	6	-----
Paltex ESD	4	Good
Paltex Abner	3	OK-some problems
Videomedia Mickey	2	Good
Grass Valley Group 141	2	Very Good+
Grass Valley Group 41EM	1	Very Good
Grass Valley Group 31	1	Very Good
Grass Valley Group IPS 100	1	Very Good
Calaway CE75	1	Good
Calaway CE100	1	Good
Ampex Ace 25	1	OK-some problems
ECCO EMME	1	OK-some problems
Paltex Vanguard	1	Very Good+
Convergence 205	1	OK-some problems
Convergence 195	1	Very Good
Sony BVE 900	1	Good
Sony RM450	1	Good
JVC RM-86U	1	Good
CMX 300	1	OK-some problems
Panasonic AG-A800	1	Good
Panasonic AU-A50	1	OK-some problems
Panasonic AU-A65	1	OK-some problems
UMI 400	1	Very Good+
CV Technologies Editmaster	1	OK-Some Problems
M & R Data Corp.	1	Very Good+

(The Controllers which have one user reporting, are not shown in any particular order)

Comments regarding various controllers:

Paltex Elite-Its users are generally happy with their Elite ownership. There are some complaints-misses match frames, controller randomly locks up, interface problems, auto slo mo doesn't always work. Service was rated very good.

Paltex Elan-most of its users are happy. Only complaints came from a user using JVC KRM 800 & KRM 860 & CR 850(3/4) who says that on a few occasions the editor locks up, and the slo mo has some problems-hunts for % of speed. No other complaints-the controller was rated very good for performance in configuration. Most had no problems with their controller and service was rated at very good.

Paltex ESD-Most are happy, only one user had a problem with their Hitachi HR-200 in the system- it forgets its smart start which causes the edit to abort. Performance was rated at very good, problems were mostly no. service was good.

Videomedia Mickey-Overall good, some missed frames. Service/Support-Good

Grass Valley Group-all listed models-rated Very Good-Service/Support was rated as Excellent

Calaway-all listed models-overall good-Service/Support was rated Very Good

Ampex Ace 25-Overall good, Timecode problem-Service/Support was rated Good-limited experience with MII interface.

ECCO EMME-rated as fair, with software difficulties.

Paltex Vanguard-rated very good-Service/Support was rated as Excellent

Convergence 205-rated as Fair, Frame accuracy problem-Service/Support was rated as Poor

Convergence 195-rated as Excellent-Service/Support was rated Very Good

Sony BVE 900-rated as Very Good-Service/Support was rated as Fair

CMX 300-rated as Good overall, Frame accuracy problem, not compatible with AU-60-Service/Support was rated as Fair. Seem uninterested in making software compatible with AU-60.

Panasonic AG-A800-rated Good overall

UMI 400-rated as Very Good-Service/Support was rated as Very Good

CV Technologies Editmaster-rated as Good overall-some timecode reading problems

M & R Data Corp-rated as Very Good overall-free software updates

Results of our April/May 1992 Survey Questions

The following is based on responses to the questions asked in our April/May survey questions

<i>Edit Controller</i>	<i># of Users Responding</i>	<i>Rating</i>
Paltex Elite	5	Very Good
Paltex Elan	4	Very Good+
Edit using front panel controls	3	-----
Paltex Abner	4	OK-some problems
Sony BVE 900	2	Good
Ampex Ace 25	2	Good
Grass Valley Group 141	2	Very Good+
Grass Valley Group 241	1	Very Good+
Grass Valley Group 41EM	1	Very Good
Grass Valley Group 131	1	Very Good
Grass Valley Group(didn't specify)	1	Very Good
Grass Valley Group super edit	1	Very Good
Abekas A-34 Solo	1	Very Good+
Calaway CE 75	1	Very Good
Calaway CE100	1	Good
Calaway CE200	1	OK-some problems
M & R Data Symphony System 3	1	Very Good+
ECCO IVES II AB	1	Very Good
Convergence 195	1	Very Good
Sony BVE600	1	Good
Sony 450	1	OK-some problems
JVC RM-86U	1	Good
Videomedia Super Micron	1	Good
UMI 430	1	Very Good+
CEL ERIC P158	1	OK-some problems
Mac Based Edit Controller	1	Very Good

(The Controllers which have one user reporting, are not shown in any particular order)

Comments regarding various controllers:

Paltex Elite-Its users are generally happy with their Elite ownership. User comments include, "Powerful tool, not the easiest machine to master, but software upgrades and expanded interface capability have been relatively painless." "During interformat editing 3/4" will not servo lock to time code. If operating in color frame lock mode, editor needs several attempts to properly lock up to preview or perform edit". "Problem with syncing up with the MIIs (3-JVC KRM820's) and dropping frames with time code." " Keyboard layout could have been more user friendly, also needs more memory for list storage." The controller was rated very good for performance in its configuration. Service was rated from fair to excellent.

Paltex Elan-Its users are happy. The controller was rated very good & excellent for performance in its configuration and they had no problems with their controller and service was rated at very good to excellent.

Paltex Abner-It appears as though it is a mixed bag as far as happy and unhappy Abner users go. One user comments, "Once the software EPROMS were installed, no problems". Another user states, "It can't handle interformat A/B routing-too many quirks, cuts only slips frequently". The service rating varied from poor to excellent.

Sony BVE 900-The controller was rated very good for performance in its configuration and they had no problems with their controller and service was rated at good to very good.

AMPEX ACE 25-One of the ACE 25 users comments, "We have enjoyed the editor, only a minor problem or two and AMPEX came to our aid pronto with no loss of productive time." Service and support range from fair to very good.

Grass Valley 141-Its users are happy. "I would be surprised if there are any others better!" "Service and support has been much better than I imagined." Service and support range was from good to excellent.

Grass Valley 241-Its users are extremely happy. "Best all around editor in existence." Service and support rated as excellent.

Grass Valley 41EM-Had some early shift problems, software version 6.0 cured them. It pays to upgrade editor software as a yearly expense item. Service and support rated very good.

Grass Valley 131-"Our editor has intermittent problems with aborting edits from some S-VHS source tapes with post-striped TC. The only fix is to go to control track editing." The controller was rated excellent for performance in its configuration and service was rated as fair.

Grass Valley Super Edit-The controller was rated very good in its configuration and they had no problems with their controller and service/support rated excellent.

Grass Valley (Model# wasn't specified) The controller was rated very good in its configuration. User comments include, "The rating would probably be excellent had we purchased additional software options. We have not had the unit serviced. Most operating questions have been adequately covered in the manuals."

ABEKAS A-34 Solo-The controller was rated very good in its configuration. User comments include, "Solo in the "live" mode will not control VCR's, must be in "program" mode. Service and support rated excellent."

Calaway CE75-The controller was rated very good in its configuration. User comments include, "Not a problem but a suggestion - Shuttle Knob on Editor doesn't have the same speed selections as the knob on the MII machines. It is unfortunate as the MII shuttle is GREAT! The editor knob matches the Sony 1" machine very well."

Calaway CE100-The controller was rated very good in its configuration. User comments include, "Motion controller stinks, other than that, no problems. Really have to push them for software upgrades." Service and support rated fair.

Calaway CE 200-The controller was rated fair in its configuration. "Edit aborts from 3/4" source tapes recorded on Sony field recorders. Calaway support is only so-so or worse. Have to beg for software upgrades-very important on a PC-Based Editing System!"

M & R Data Symphony System 3-The controller was rated as excellent in the configuration. User comments include "Extremely powerful." Service and support-excellent.

ECCO IVES II AB-The controller was rated excellent in its configuration. Service and support rated excellent.

Convergence ECS-195-The controller was rated excellent in its configuration. User comments include, "Convergence does not exist any longer, but now Paltex has taken over the responsibility of service and support. Their role is kind of like JVC with MII's, they don't make them, but they fix them." Service and support rated very good.

Sony BVE 600-The controller was rated good in its configuration. User comments include, "There are consistent frame offset errors because Panasonic machines do not accurately emulate Sony 3/4" machines' dynamics. For example, AU-60 always record 2 frames early. AG-7750 starts recording 6 frames late. At least these offsets are always consistent, so I can compensate. But it makes match frame inconvenient. If the VCR's aren't made by Sony, they (Sony) don't want to know about it. Panasonic hasn't addressed by problems either." Service and support

Sony 450-The controller was rated fair in its configuration. User comments include, "Problems with time code, and there are flash frames so you have to trim 3 frames to compensate." No experience with service/support.

Videomedia Super Micron-The controller was rated excellent in its configuration. User comments include, "It does everything that is needed and more." Service and support are excellent.

United Media UMI 430-The controller was rated excellent in its configuration. User comments include, "It's very flexible and user friendly. Quick turnaround on upgrades. Service and support rated excellent.

CEL Eric P158 Editing System-The controller was rated fair in its configuration. Service and support rate poor.

Mac Based Edit Controller (self designed)-The system was specifically designed for MII, it has a 16ch. audio mixer, video switcher and can do color correction in addition to many other functions too numerous to mention.

Interformat Editing - In addition to their MII machines, most of those responding to this survey have some kind of interformat capability. Virtually every format is represented, Hi-8, S-VHS, 3/4", 3/4"SP, BetaCam, BetaCam SP, 1" C.

Video Toaster Users - Of those responding to the survey questions, 36.59% use the Toaster, and 63.41% do not use the Toaster.

Additional Comments:

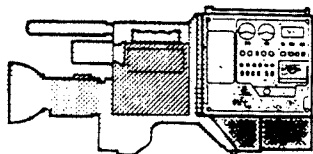
We will be in contact with those Edit Controller Companies for which we have received negative reports. The Association will encourage them to work with those users reporting problems.

These results are a general compilation of the experiences of our users. If anyone is interested in specifics regarding any of the edit controllers listed, we will be happy to refer them to MII users who are utilizing these controllers. The MII Users Association of America can be reached at (800) 966-1030 (ask to speak to Debbie) or fax (703)339-0764

MII DUDE

This month, the MII Dude wanted to share with us a very useful technical bulletin that was originally run in our May 1991 newsletter, on "Recommended Cleaning and Maintenance Procedures" for MII VTR's. After all, by performing regular maintenance and cleaning as shown in the bulletin, you can minimize problems and increase the life of your MII VTR's. The bulletin is from Panasonic, so if you have questions, you should contact your Panasonic Field Engineer for further information. If you have any questions for the MII Dude, send them to:

MII Users Association of America
c/o GMG International
8580 Cinderbed Rd., Suite 1000
Newington, VA 22122
or fax to (703)339-0764.



Model: All Models
 Bulletin: TB90-100
 Date: Jan. 15, 1991
 Dist: D05/D15

Recommended Cleaning and Maintenance Procedure

Frequent cleaning and maintenance, as listed in this Technical Bulletin, will assure optimum performance and longer life of your MII VTR.

This Technical Bulletin is separated into two sections:

- A) Studio Units
- B) Portable Units

Please refer to the table of contents for your particular application.

Contents	Page #
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2. Recommended Schedule	Pg. 2
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(A) Front Loading Unit	Pg. 7
(B) AU-660 Mech. Parts	Pg. 8
(C) AU-65 Mech. Parts	Pg. 9
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10. Pinch Roller, Capstan, Post Guides	Pg. 12-13
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The Technical Support Division publishes Technical Bulletins for distribution to users of Panasonic broadcast equipment. Bulletins are distributed to aid in aligning, modifying and in servicing this equipment. The Technical Support Division assumes no responsibility to pay for modifications, supply parts, exchange new production units for early production units or any obligation to upgrade existing products.

1. REQUIRED MATERIAL

1. A "Lifting" solvent**
2. 100% Isopropyl Alcohol
3. Head Cleaning stick VFK 27* or Lint-Free Cloth (TEXWIPES)™
4. Canned Air
5. Molyton grease Panasonic part# MOR265

Note: *VFK 27 available through the parts dept.

**A popular lifting solvent is Freon.

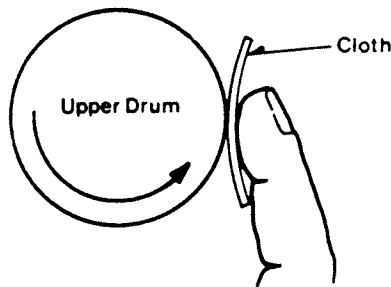
2. RECOMMENDED SCHEDULE

- | | | |
|--------------------------|---|---|
| 1. Daily | — | Cleaning of Upper Drum & A/C Head Assy. |
| 2. Weekly | — | Cleaning of Tape path ie, Upper and Lower Drum, A/C Head, Tape Post Guides, Pinch Roller, Capstan. |
| 3. Monthly | — | Cleaning of Reel Base, Brakes, Cass Assy, Slip Rings, & Brush Assy. |
| 4. 2000 Hrs. | — | Change Upper Drum, Pinch roller, Brush Assy. |
| 5. 6 Months of Operation | — | Lubricate Gears and Mech. Parts/Check Tape Tension |
| 6. 4000 Hrs. | — | Change Drum Unit (upper and lower), Assy. and Pinch Roller |
| 7. Yearly | — | Clean out Machine with canned Air and Refer to the Manual's Maintenance Chart for Parts Replacement |

Note: Frequency of maintenance, depends on actual use. These intervals should reflect your actual situation and usage

Note: ALL procedures should be performed with AC Power OFF

3A. HEAD CLEANING METHOD:



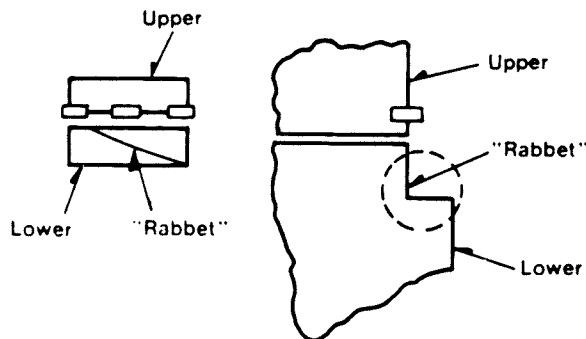
Clean heads by applying even pressure and rotating upper drum (as shown). Never wipe in an up and down motion.

1. Clean with Alcohol
2. Clean with "Lifting solvent"
3. Wipe dry

The reason we recommend cleaning, first with Isopropyl, then a "Lifting Solvent" is that alcohol dissolves any organic foreign substances (dirt, finger prints, etc...) but dries too slowly and leaves a residue. "Lifting" solvents can't dissolve foreign substances, the use of only one, or the other is incomplete.

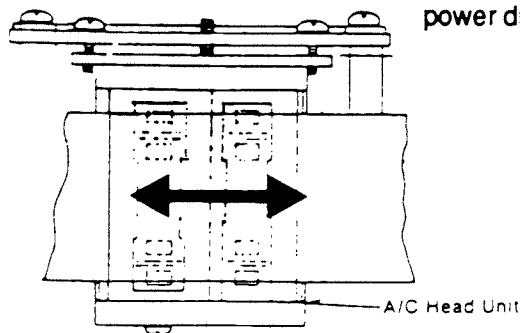
3B. LOWER DRUM CLEANING METHOD

Clean the rabbet guide with an alcohol soaked, sharpened toothpick. At this time use an inspection mirror to check for "scoring" or wear to drum assy.



3C. A/C HEAD CLEANING METHOD (STUDIO UNIT)

Clean the A/C head with alcohol then with Lifting Solvent. Check for scratches or scoring. Clean in a side to side motion only. Push the "Jog" and "Shuttle" simultaneously (cass. ejected) to move pinch roller away from A/C stack. To return pinch roller, press eject. (Turn off power during cleaning.)

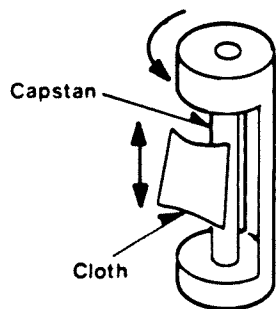
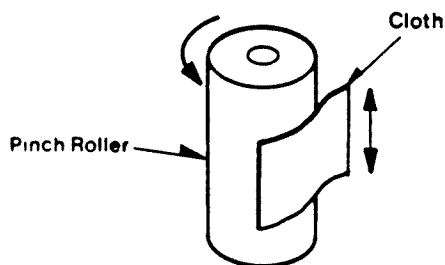


4. PINCH ROLLER, CAPSTAN, POST GUIDES CLEANING METHOD

Pinch Rollers should be cleaned with a 50% solution of Isopropyl Alcohol and a clean Texwipe® and wipe in a up and down motion.

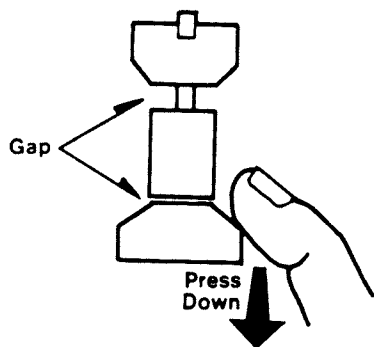
1. Wipe with 50% Isopropyl solution
2. Wipe with a clean dry Texwipe® and repeat until no rubber (dirt) comes off

Never use straight alcohol. It will disintegrate the rubber.



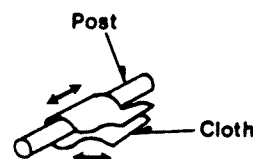
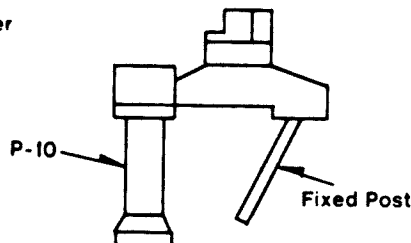
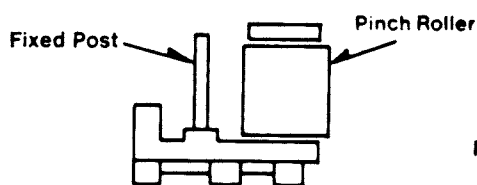
Capstan shaft should be cleaned with alcohol.

1. Wipe with alcohol soaked Texwipe®.
2. Wipe with dry Texwipe®.



Post guides P1 thru P12 should be pushed down to form a gap. Cleaning should be done with a dry Texwipe® only, so the ball bearings do not get damaged.

Fixed posts should be cleaned with alcohol. Wipe Texwipe® in same direction as tape travel. At this time you should check for a small groove (wear) where the tape edge travels.



5. PERIODIC MAINTENANCE & ADJUSTMENT PROCEDURE FOR BRUSH ASSEMBLIES

A. MONTHLY CLEANING PROCEDURE

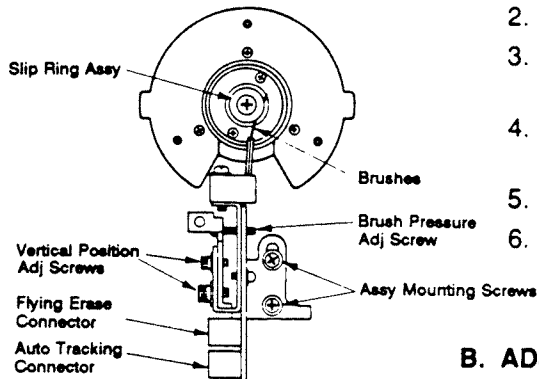


FIG. 1

1. Turn Power off.
2. Remove A/T & FE connectors
3. Remove the 2 Assy. mount screws (Fig. 1) & carefully remove the brush Assy.
4. With Alcohol soaked Texwipe®, carefully clean the brush contacts, contact grooves of slip ring Assy. See Fig. 2
5. Check for worn parts.
6. Reassemble

Basically the same procedure is used for the earthing brush found on 400/500 & 620 units refer to Fig. 3.

B. ADJUSTMENT OF BRUSH ASSY.

1. Adjust the vertical position of the brushes. Make sure that they're aligned to the center of the slip ring grooves. As shown in Fig. 2
2. Adjust the brush pressure. The rubber covered base of the brushes should form a straight line with the center of the top of the slip ring Assy. As shown in Fig. 1. Refer to Fig. 4 for adjustment screw locations.

Note: Make sure that the brushes don't make a "cross connection".

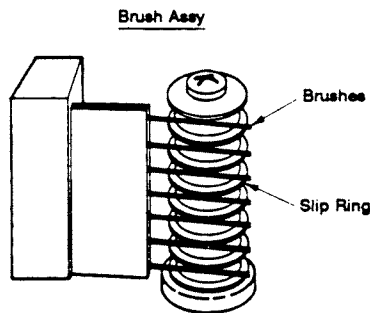


FIG. 2

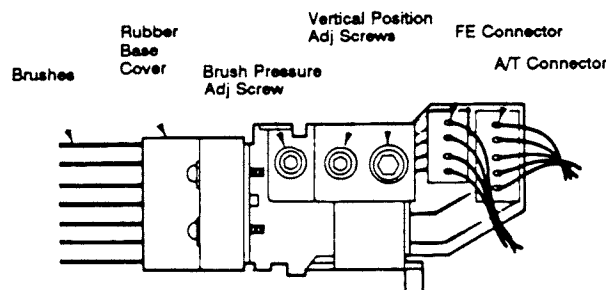


FIG. 4

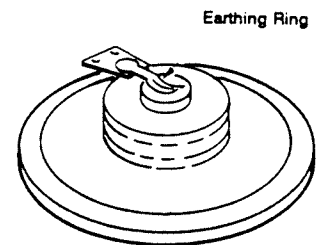
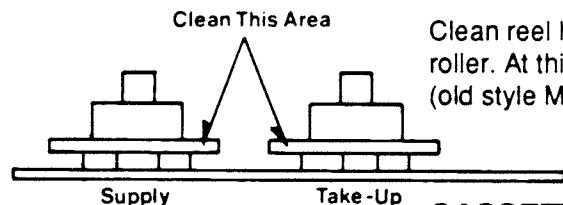


FIG. 3

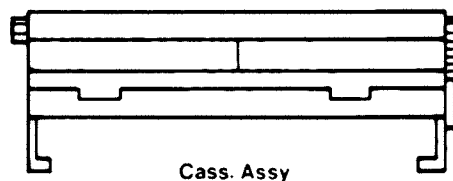
6. BRAKES AND REEL TABLE



Clean reel hubs with same solution that is described and used for pinch roller. At this time, check break pads and *reel height. (old style M II)

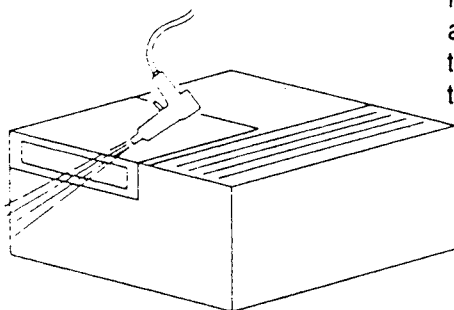
CASSETTE ASSEMBLY

The cassette assembly should be vacuumed out for dust, then wiped down with alcohol, around front angle guides and top surface. At this time check L.E.D.'s and tape end sensors. Clean with contact RE-NU® or Gensolv 2010®.



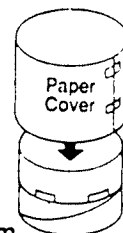
7. CLEANING OF THE MACHINE'S INTERIOR (EVERY 4000 HOURS OR EVERY 12 MONTHS OF OPERATION)

1) MECHANICAL SECTION



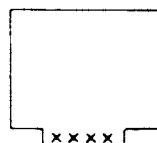
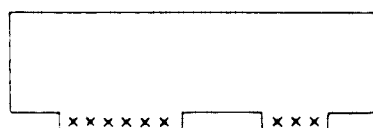
Remove the front loading mechanism and blow out the dust with an air-gun, as shown in the illustration. Be careful to blow the dust out of the machine, not back inside it. Use the air gun to blow the dust from the front loading mechanism too.

Note: Cover the upper drum assy. to keep dust out of the video heads.



2) ELECTRICAL SECTION

Blow the dust from the gaps between the printed-circuit boards with the air-gun. Remove the bottom plate from the machine and blow the dust from around the mother board and the fan motor unit. Clean edge connectors with Gensolv 2010®.



8. LUBRICATION OF MOVING PARTS

Follow the previously described intervals with care to lubricate only those parts involved (don't make a mess). At the same time check for worn parts and replace as necessary. Application should be done with a cotton swab or a toothpick.

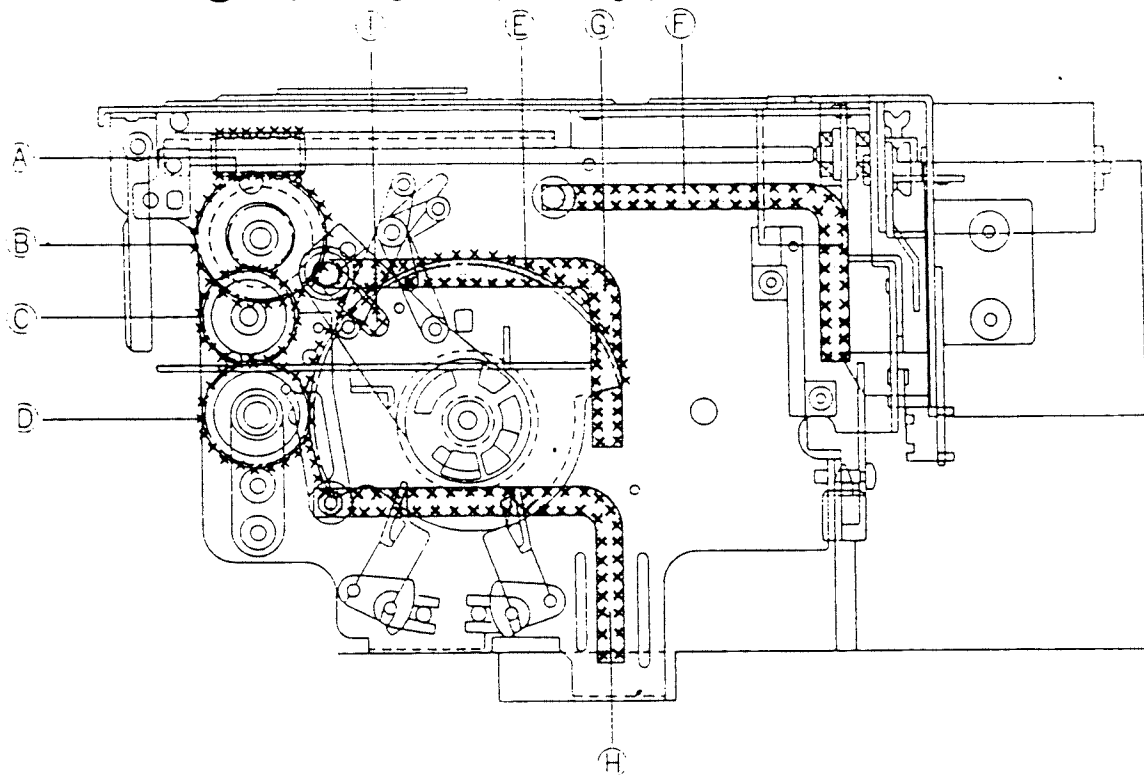
Refer to Fig. 5, 6, 7

8A. Front Loading Unit

Grease this section as described for the mechanical parts. After applying the grease, raise and lower the cassette 2 or 3 times to spread the grease uniformly.

- Gears {
- (A) Worm
 - (B) Worm gear
 - (C) Intermediate gear
 - (D) Main shaft gears (left and right)
 - (E) Wiper gears (left and right)

- Sliding surfaces {
- (F) Side plate grooves (left and right)
 - (G) Side plate grooves (left and right)
 - (H) Wiper arm grooves (left and right)



8. LUBRICATION OF THE GEARS AND SLIDING SURFACES (EVERY 2000 HOURS OR EVERY 6 MONTHS OF OPERATION)

8B. MECHANICAL PARTS — AU 660 SERIES

Apply a small amount of Molyton grease to the areas indicated in the drawing and spread it thinly with sharpened stick. If dust or dirt is found mixed with the old grease during the initial check, wipe it off with a cloth before applying the new grease. After applying the grease, repeat the loading and unloading operation 2 or 3 times to spread the grease uniformly, and remove any excess grease.

- Gears {
- (A) Sub-loading gear 1
 - (B) Sub-loading gear 2
 - (C) T. Tension Control Gear
 - (D) Ring gear
 - (E) Gear
(upper and lower)
 - (F) Worm gear

- Sliding surfaces {
- (G) Sliding contact between the slide lever and base of the reel base.
(SLIDE LEVER)
 - (H) Sliding contact between the pressure lever and P1 driverrod pin.
(HOLDER LEVER)
 - (I) Sliding contact between the pressure lever and P1 arm drive pin.
(HOLDER LEVER)
 - (J) T. Tension control Gear locking pins (2)
 - (K) T. Tension Control Gear groove
 - (L) Square hole in P1 control rod B
 - (M) Sliding contact between the TR stopper lever and the pinch lever pin.
(STOPPER LEVER)
 - (N) Sliding contact between the unload detect lever and the turn roller arm.
(UNLOADING ARM)

Notes:

1. Remove the carriage before applying the grease.
2. Grease the T. Tension Control Gear in the tape-unloaded position. Then set the machine to the tape-loaded position and then apply grease to the areas that were inaccessible before. Press the ring drive gear down and manually rotate the loading ring to set the machine in the tape-loaded position.

8C. AU-65 SERIES

The actual greasing procedure is the same as for the AU-650 Series, but the type of grease is different in some places. Refer to the attached sheet.

Gears	{	(A) Ring Intermediate gear 1	{	Type of grease Froiral G-31SB, or equivalent
		(B) Ring Intermediate gear 2		
		(C) Cam gear		
		(D) Compact cassette worm		
		(E) Ring gears (upper and lower)		
		(F) Intermediate gear		
Sliding surfaces	{	(G) Unload detect lever	{	Molyton grease MOR 265, or equivalent
		(H) TR stopper lever		
		(I) P1 drive rod		
		(J) Upper of the cam worm wheel (cam area)...Froiral G-31SB, or an equivalent.		

Note:

Grease the cam gear (C) in the tape-unloaded position, as shown in Fig. 2. Then set the machine to the tape-loaded position and apply grease to the areas which were inaccessible before. The procedure to set the machine in the tape-loaded position is described above.

AU-660 SERIES

MAINTENANCE PARTS LOCATION

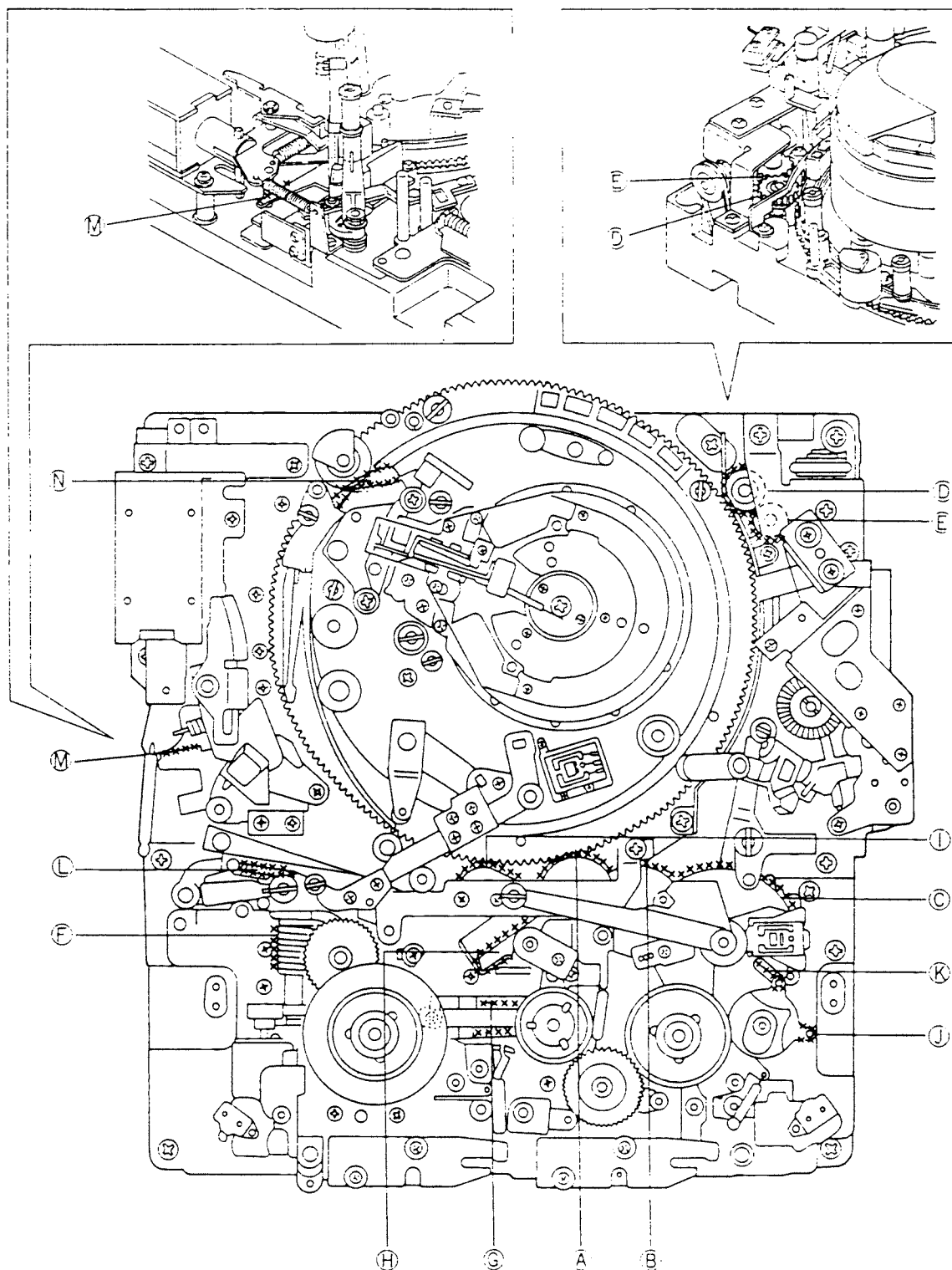


FIG. 6

AU-65 SERIES

MAINTENANCE PARTS LOCATION

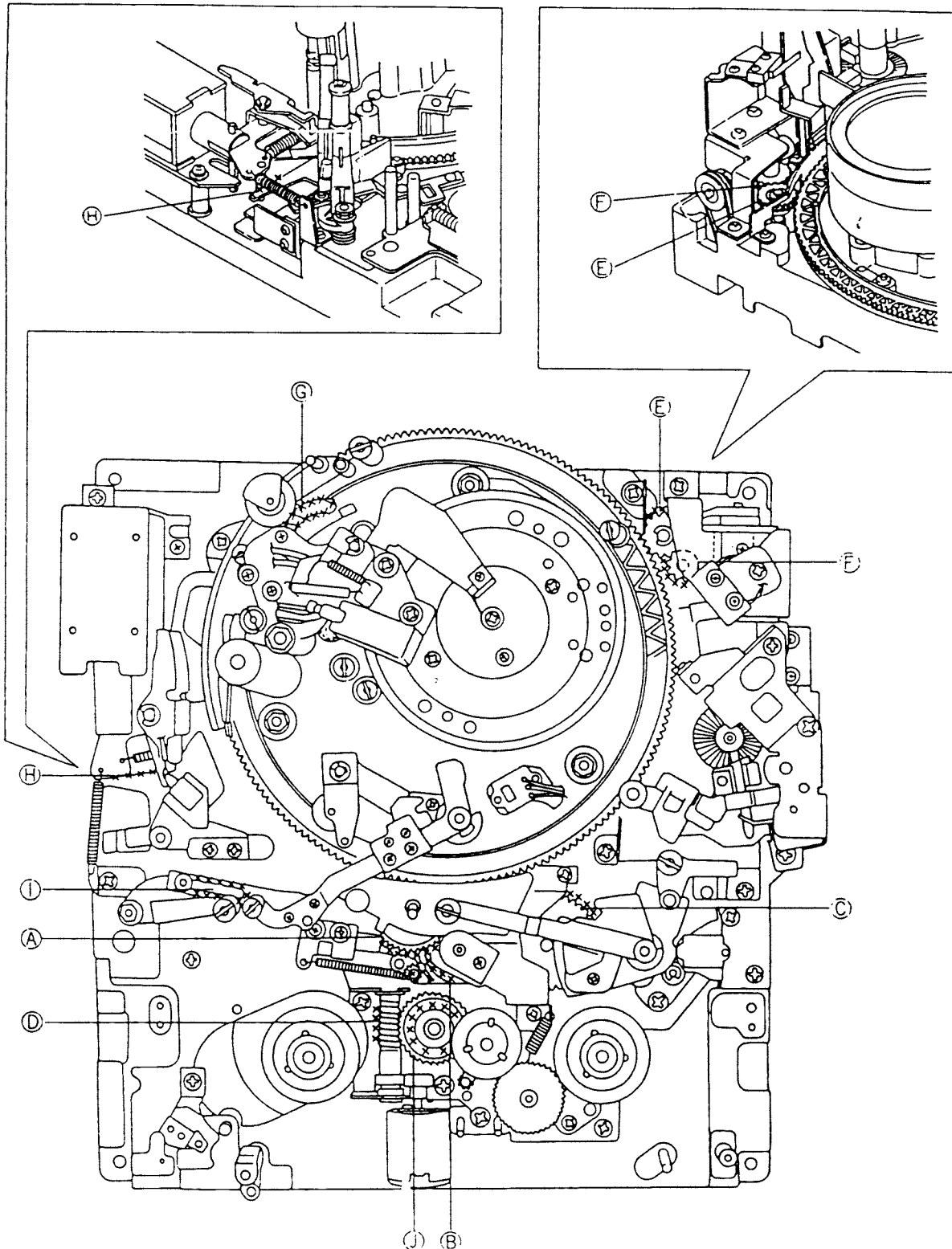
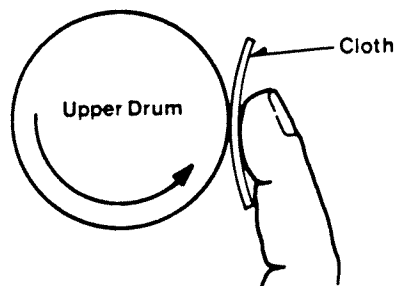


Fig. 7

9A. HEAD CLEANING METHOD:

Clean heads by applying even pressure and rotating upper drum (as shown). Never wipe in an up and down motion.

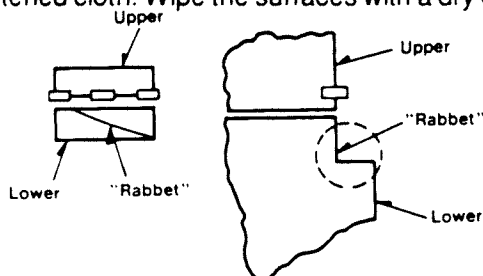
1. Clean with Alcohol
2. Clean with "Lifting" Solvent
3. Wipe dry

Note:

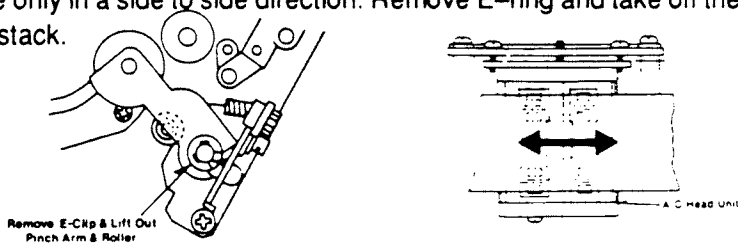
The reason we recommend cleaning, first with Isopropyl, then a "Lifting" Solvent is that alcohol dissolves any organic foreign substances (dirt, finger prints, etc...) but dries too slowly and leaves a residue. "Lifting Solvents" can't dissolve foreign substances. The use of only one, or the other is incomplete.

9B. LOWER DRUM

Clean dirt from the rabbet guide with a toothpick. Clean the guide surface and the portion of the lower drum that comes in contact with the video tape. Use an alcohol moistened cloth. Wipe the surfaces with a dry cloth after cleaning.

**9C. A/C HEAD ASSY AND FE HEAD**

Wipe the front surfaces of the heads with a cleaning cloth or a Kim Wipe moistened with alcohol. Wipe the surfaces with a dry cloth after cleaning. Wipe only in a side to side direction. Remove E-ring and take off the pinch arm to have better access to the A/C stack.

**10. PINCH ROLLER, CAPSTAN MOTOR, TIMER ROLLER, ROLLERS OF P1 THROUGH P11**

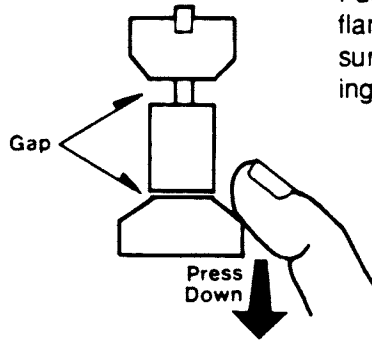
While rotating the pinch roller by hand, wipe the roller surface up and down with a cloth or a Kim Wipe moistened with alcohol, as shown in the illustration. Wipe the entire surface of the pinch roller. Continue this operation until no more rubber (dirt) is removed.

Repeat this procedure for the capstan motor, timer roller, and rollers of P1 through P11. For tape guides, use only a dry kimwipe because alcohol will damage the ball bearings.

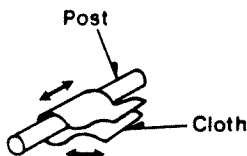
Recommended Cleaning and
Subject: Maintenance Procedure For Portable VTR's

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10A. FLANGES OF P1 TO P11

Push down on the post flange by finger and hold it to open a gap between the flange and the roller, as shown in the diagram. Wipe any dirt from the flange surface in contact with the tape and from the end of the roller with a dry cleaning cloth or a Kim Wipe®. Do not use alcohol.

10B. P2 POST (INCLINED POST)

When cleaning a fixed post, such as a guide post or an inclined post, wrap the cloth around the post in the same way as the tape wraps around it, as shown in the illustration. Clean the post along its entire length. Check for wear.

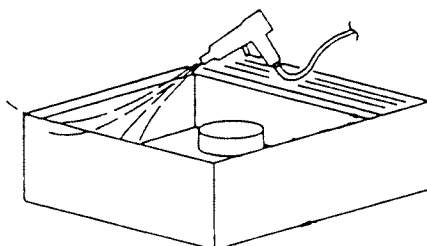
11. CLEANING OF THE CASSETTE UP UNIT (MONTHLY)

Use a vacuum cleaner to clean the dust from the surface of the cassette holder and wipe the surface of the cassette with a dry cloth or a Kim Wipe®.

12. CLEANING OF THE INSIDE MACHINE (EVERY 12 MONTHS)

Check inside the machine. If dust has collected inside the machine, remove the carriage and exterior panels and blow out the dust with an air-gun, as shown in the illustration.

Note: Cover video heads.



13. LUBRICATE THE GEARS AND SLIDING SURFACES (EVERY 12 MONTHS)

Check the gears and sliding surfaces shown in Fig. 7 and apply new grease if it is required. Apply a small amount of Molyton grease to the areas indicated on the drawing and spread it thinly with a sharpened stick. If dust or dirt is found mixed with the old grease during the initial check, wipe it off with a cloth before applying the new grease. After applying the grease, repeat the loading and unloading operation 2 or 3 times to spread the grease uniformly, and remove any excess grease.

LUBRICATION GUIDE

Gears { (A) Cam gear (gear area)
(B) Worm gear (Loading Motor)
(C) Worm gear (for Small Reel U/D Motor) (AU-500 Series only)

Sliding surfaces { (D) Cam gear (cam groove)
(E)
(F) } Loading guide
(G)

Note:

It is easier to grease the AU-500 series worm gear (B) if the VIDEO 1 printed circuit board is removed.

14. AU, 410, 500, 505, 520

PORTABLE CHASSIS

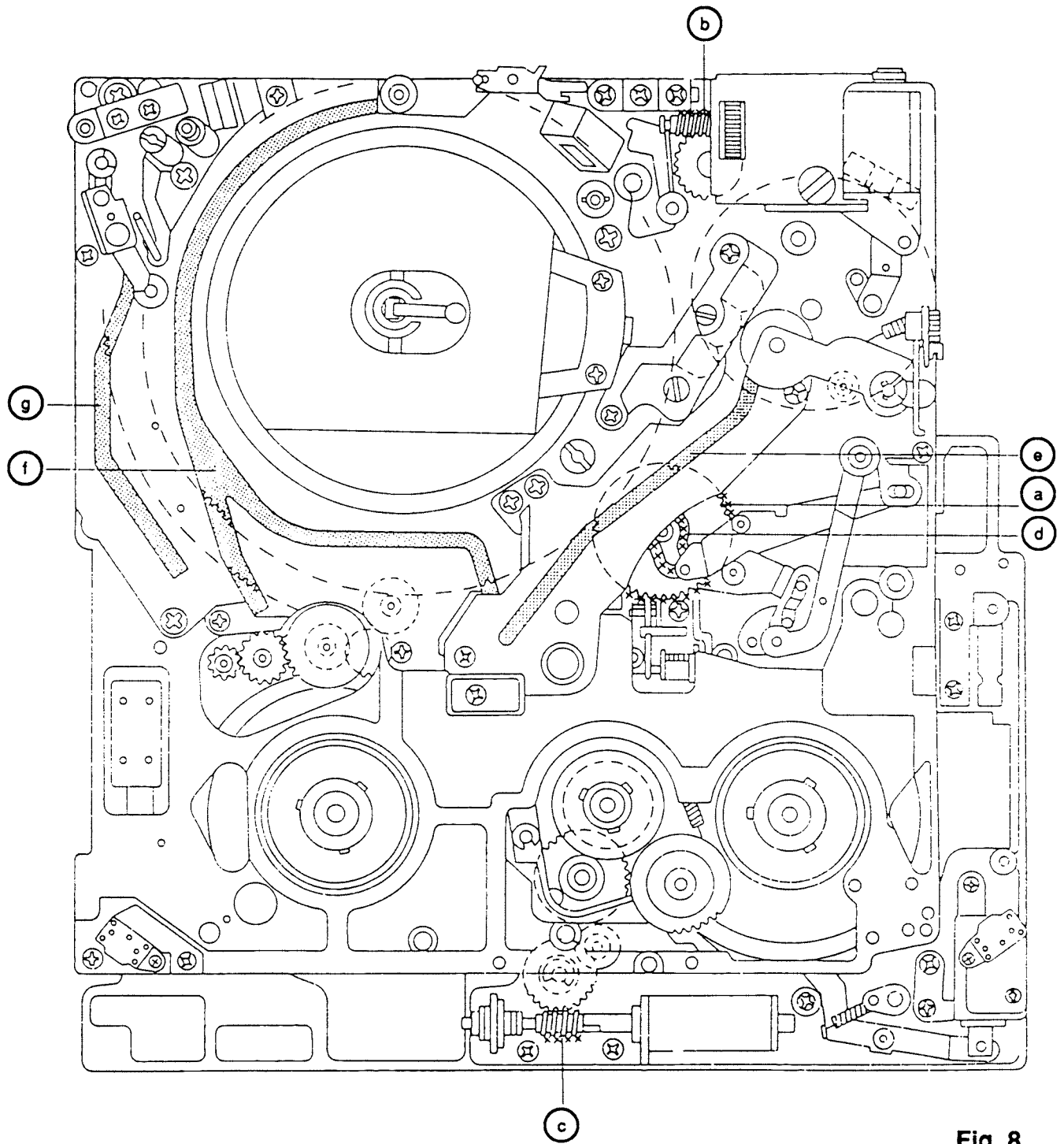


Fig. 8

MII Trading Post

Please Contact Us When The Equipment Is Sold

Panasonic AU-650, Studio recorder/editor, with auto tracking, TBC, TC for slow motion and still, low hours, excellent condition. Best Offer. Contact Tom Kramer (206) 322-6555 8:30-5 PST (WA)

Panasonic AU-650, MII Studio recorder/editor, Low hours all updates and documentation included (2 available) call for price and specifics. Unitel Video, Mark Miller (213)878-5800, 9:00am to 6:00 pm Mon-Fri PST (CA).

Panasonic AU-660, Studio recorder/editor, Excellent Condition. Complete maintenance history available. 90 day equipment warranty. Asking \$12,500.00, leave message and phone number (301)797-1573. (MD)

Panasonic AU-63, MII Studio Player w/AT, Demo, \$8,500.00. Full Warranty. Contact Bill Frazier (412)243-1300 (PA)

Panasonic AU-63, MII Studio Player, Demo, \$10,000.00, **Panasonic AU-65, MII Studio recorder/editor, Demo**, \$10,000.00, **Panasonic AU-60, MII Studio Low hours with time code**, \$10,000.00. Contact Jack Miller at (914) 592-4151 (NY)

Panasonic AU-500, MII Portable, less than 100 hours on the heads \$9,000.00. We are selling our entire inventory of video equipment. All items-excellent condition. Prices are negotiable, many items, used only once. Other equipment available; Sony M-7 camera, \$9,500.00, AG-7400 SVHS recorder \$1,600.00. Accessories are also available, space limitations prevent listing all here. For further information please contact William L. Gosa, Jr. O/(612)736-4815, H/(612)698-3379 (MN)

JVC KRM 800U MII Recorder/Editor. Excellent condition. Asking \$10,000.00 . Contact Frank Maiale at WYOU TV (608)258-9644 (WI)

JVC KRM 800U MII Editor; JVC SA-T310U Component TBC; Evertz Emulator II Parallel to Serial Interface w/LTC SMPTE. Package Price \$6,500.00. Contact Terry Grant (612)870-0028 (MN)

JVC KRM 800U MII Recorder-Player. Less than 400 hours...\$4,000.00, **JVC KY 320 Camera w/Fujinon**, 16 x 9.5 Lens, includes portabrace, power supply, batteries , shipper case and CCU...\$3,500.00. Contact Jordan Gershon, Majec Productions, (913)894-1188 (KS)

JVC KRM 800U MII Recorder-Player. 200 hours - perfect condition...\$4,700.00 or Best Offer. For further information, call Tom (412) 733-4776, (PA)

JVC KRM800, MII Editor, Low hours, \$7,000.00 or best offer. Please contact Dan O'Connell for further information. (813)755-9783 (FL)

JVC KRM260 (91) Dockable MII Deck, attached to a **JVC KY-25 (91) Camera**. Deck has less than 10 hours, Camera less than 90 hours. Lots of accessories (batteries, Portabrace cover, Adaptors). Please contact Mitch Schaffer, Innisbrook Resort (813)942-2000 ext. 5290 (FL)

Panasonic AG 7500A SVHS Editing Decks. Special Demo Units, in box, FULL Warranty. \$3,500.00 each, or both for \$6,800.00. New edit controller also available \$1,400.00. MX10 Digital Special Effects Generator w/Title \$900.00. Please contact Tim Dench,(502)231-1229 (KY)

Panasonic AU-B110, 10 amp; 12v power supply. Brand new, never removed from factory sealed box. From Midwest Comm. liquidation sale. \$790.00 retail, will sell for **\$300.00**. Contact Russ Beckner, rdb productions, inc. (513) 422-9552 (OH)

Used MII Tape- Limited number of MII tapes, Large cassettes, 30's, 60's 90's. Low Passes, most with factory cased, "All Bulked". Good for many purposes. \$3.50 each in lots of 100. Buyer pays the shipping charges. Contact Ed McKay or John Bishop at (704)398-0046 (phone), or (704)393-8407 (fax)(FL)

New MII Tape-Magnetech is offering MII Videotape for sale, all lengths, in stock, Contact Michael Pardo at MagneTech (305) 791-6711. (FL)

If you have equipment you would like included in the next Trading Post, please contact us in writing, either by fax or mail at MII Users Association of America, c/o GMG International Inc., 8580 Cinderbed Rd. Suite 1000, Newington, VA 22122, Attn: Debbie.

Fax (703) 339-0764. Please contact us when the equipment is sold.

MII Users Association of America Membership Listing

Alabama

AUVID Productions
Int'l Inc.
Paul D. Kennamer, Sr.
PO Box 1933
Huntsville, AL 35807
(205) 534-4666
Have MII

AUVID Productions
Int'l Inc.
Nancy Kabajain
PO Box 1933
Huntsville, AL 35807
(205) 534-4666
Have MII

DCH Regional Medical
Center
Larry Parker
809 University Blvd E.
Tuscaloosa, AL 35401
(205) 759-7332
Have MII

Digital Media Solutions
Doug Butler
3626 Clairmont Ave
Birmingham, AL 35222
(205) 323-5994
No MII

Industrial
Communications Inc
Mike Cornelius
PO Box 190201
Birmingham, AL 35219
Have MII

Industrial
Communications Inc.
Britton Neal
232 Oxmore Cir
Birmingham, AL 35209
Have MII

Arizona

COVID
Imre A. Csaszar
1725 W. 17th St.
Tempe, AZ 85251
No MII

Del Sol Productions
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19 W. Ventura
Tucson, AZ 85705
(602) 622-1515
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Bruce Sherman
3019 E Southern Ave
Phoenix, AZ 85040
(602) 243-3333
Have MII

KVOA-TV
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209 W. Elm St.
Tucson, AZ 85705
(602) 792-2270
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Studio Optix
Christopher Hutson
103 W Alameda
Phoenix, AZ 85003
(602) 254-4668
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Troxell
James Chalifoux
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Phoenix, AZ 85040
(800) 352-7912
Dealer

Vaughn Duplication
Services
Jim Lawson
3802 East University
Drive, Suite 2
Phoenix, AZ 85034
(800) 228-7609
Have MII

Arkansas

5 Star Video
Randy McFarland
1112 Garrison Ave
Ft Smith, AR 72901
(501) 783-7751
Have MII

Arkansas Farm Bureau
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PO Box 31
Little Rock, AR 72203-31
(501) 228-1488
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Fayetteville, AR 72701
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Pine Bluff, AR 71613
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1133 N. Hollywood Way
Burbank, CA 91505
(818) 841-7440

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N.Hollywood, CA 91601
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Suite 2050
San Francisco, CA 94111
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92356
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Grass Valley, CA 95945
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San Diego, CA 92119
(619) 464-6446
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7925 Auburn Blvd
Citrus Heights, CA
95610
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Jay Rudin
3 Television Cir
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Kolb Entertainment
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Sylmar, CA 91342
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Vaughn Duplication Services Paul Taylor 2465 Campus Dr., Ste M Irvine, CA 92715 (714) 252-0190 Have MII	Group Publishing David Priest PO Box 481 Loveland, CO 80539 (303) 669-3836x267	Connecticut Anton Bauer Michael Malcy 1 Controls Dr. Shelton, CT 06484 (203) 929-1100 Manuf.	C-SPAN Bill Conover 400 North Capitol Street Suite 650 Washington, DC 20001 (202) 737-3220 Have MII	Airtime Design Brooks Reid 6490 SW 113th Miami, FL 33156 (305) 666-0925 Have MII	JJ Farris Enterprises, Inc. Joe Farris 6240 NW 173rd St #1027 Miami, FL 33015 (305) 825-3908 No MII
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Colorado Advanced Audio Video Michael Cassidy 7700 E. Illiff, Suite H Denver, CO 80231 (800) 368-0406 Have MII	KCNC-TV Don Sturgeski 1044 Lincoln St Denver, CO 80203 (303) 830-6313 Have MII	WXXX-TV Charles Allen 414 Meadow St Waterbury, CT 06702 (203) 575-2020 Have MII	Mediasource, Inc. Bill Parks 2121 Wisconsin Ave., N.W. Suite 64 Washington, DC 20007 (202) 298-8100 Supplier	Blue Mango Productions Ed Reinhardt 1513 Wiley St Hollywood, FL 33020 (305) 921-0079 Have MII	Mayo Clinic Asa Floyd 4500 San Pablo Rd. Jacksonville, FL 32224 (904) 223-2672 Have MII
Advanced Audio Video A.J. Delizza 7700 E. Illiff, Suite H Denver, CO 80231 (800) 368-0406 Have MII	Martin Marrietta Jim Pirtle Falcon AFB Colorado Springs, CO 80912 (919) 380-2552 Have MII	WXXX-TV George Parson 37 Peach Orchard Rd Prospect, CT 06712 (203) 758-4427 Have MII	Minority Training Center Richard Ray 1407 K Street, NW Washington, DC 20005 (202) 371-1444 No MII	CBF Media Centre Bob Bernhardt 3400 Raleigh St Hollywood, FL 33021 Have MII	Mayo Clinic Bill Wimsatt 4500 San Pablo Rd. Jacksonville, FL 32224 (904) 223-2008 Have MII
American Magnetic Media Steve Helmick 5580 Havana Unit 6A Denver, CO 80239 (800) USA-TAPE Have MII	Multi-Magnetics, Inc. John Simon 1020 15th St. #20E Denver, CO 80202 (303) 825-7768 Have MII	WXXX-TV Fred Tullock 37 Peach Orchard Rd Prospect, CT 06712 (203) 575-2020x250 Have MII	National Credit Union Administration Bob Parks 1776 G St. N.W. Washington, DC 20456 Have MII	Channel 20 Scott Monaghan 215 N. Olive Ave, Suite 100 West Palm Beach, FL 33402 (407) 355-4239 Have MII	Medfo, Inc. John P. Lenhart, MD 6110 9th St. N. St Petersburg, FL 33703 (813) 521-4130 Have MII
American TV & Communications David Franklin 160 Inverness Dr. W. Englewood, CO 80112 (303) 799-1200 Have MII	Optical Audio Productions Mike Koury P.O. Box 2243 Fort Collins, CO 80522 (303) 484-5535 Have MII	District of Columbia Anacostia H.S. Fred Atarod, RM 228 16th & R St., SE Washington, DC 20020 No MII	Organization of American States TV Unit Gabriel Gross 17th & Constitution Avenues Washington, DC 20006 (202) 458-3985 No MII	Continental Cablevision Alan Tomasetti 141 N.W. 16th St Pompano Beach, FL 33060 (305) 946-7011 Have MII	Medfo, Inc. Dennis McDougall 6110 9th St. N. St Petersburg, FL 33703 (813) 521-4130 Have MII

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Media Concepts Bob Skidmore 559 49th Street South St. Petersburg, FL 33707 (813) 321-2122 Dealer	WFLA Mike Healy 905 E Jackson St Tampa, FL 33614 (813) 228-8888 Have MII	Printpack, Inc. John Clower 4335 Wencell Dr. Atlanta, GA 30336 (404) 691-2538 x445 Have MII	Video Concepts Kevin Harrington 535 Lipoa Pkwy Kihei, Maui, HI 96753 (808) 879-1329 Have MII	Kemper National Insurance Bill Demarco Kemper TV Studios F-3 Rt. 22 & Kemper Dr. Long Grove, IL 60049 (708) 540-4449 Have MII	TeleVisual Productions Dave Beatty 1287 Wabash Springfield, IL 62704 (217) 787-4757 Have MII
Multi Image Group Jim Ballentine 1080 Holland Drive Boca Raton, FL 33487 (800) 523-2682 Supplier	WFTS Luis Romero 4501 E Columbus Dr Tampa, FL 33605 (813) 623-2828 Have MII	Savannah College of Art & Design Ralph Gnann 235 Haversham St. Savannah, GA 31402 (912) 238-2407 Have MII	Idaho KTRV Brian Royster 679 6th St Nampa, ID 83651 (208) 375-1200 Have MII	Little Fort Media Weldon Johnson 113-115 N Genesee Waukegan, IL 60085 (708) 244-9666 Have MII	The Orenda Group Jim Riemersma 9848 South Winchester Ave Chicago, IL 60643 (312) 238-3578 Have MII
Sakolsky Productions Kerry Sakolsky 700 Biltmore Way, Suite 1202 Coral Gables, FL 33134 (305) 441-1935 Have MII	WFTS Jean Varn 4501 E Columbus Dr Tampa, FL 33605 (813) 623-2828 Have MII	Strickland Video & Film Support John Strickland 2972 Chipmonk Trail Marietta, GA 30067 (404) 988-0803 Have MII	United Artists Cable Neil Smith PO Box 44 Boise, ID 83744 (208) 375-2727 Have MII	Master Images Video Duplications, Inc. Skip Navar 3176 Mac Arthur Blvd. Northbrook, IL 60062 (708) 564-0470 Have MII	Three Angels Broadcasting Network Doug Garica PO Box 220 West Frankfort, IL 62896 (618) 627-4651 Have MII
Uptown Productions AJ Machada 14413 SW 46 Ter Miami, FL 33175 No MII	WPTV Edward J. Roos P.O. Box 510 Palm Beach, FL 33480 (407) 655-5455 Have MII	TVF Productions John Salter 1612 N. Oak St. Valdosta, GA 31602 (912) 244-9597 No MII	Illinois 3M Tape Sales Dave Rahmlow 908 N. Elm St. Hinsdale, IL 60521 (800) 942-3961 Manuf.	Millikin University Ronnie Dean 1184 W. Main Decatur, IL 62522 (217) 424-6254 Have MII	Video FX Stuart Soifer 400 Jefferson Ct Wheeling, IL 60090 No MII
U.S. Air Force Wright Laboratory WL/MNGI Don Snyder Eglin AFB, FL 32542 (904) 882-9911 No MII	Georgia Atlanta Video Production Center Joseph Gora 1570 Northside Dr. NW 240 Atlanta, GA 30318 (404) 355-3398 Have MII	Vaughn Duplication Services Rick Gauthier 2700 NE Expressway Bldg A, Ste 200 Atlanta, GA 30345 (404) 728-9025 Have MII	Bible Students Publications George Tabac 900 Brentwood Bensenville, IL 60106 (708) 595-0984 Have MII	NBC Mr. T. Powers 454 N. Columbus Dr Chicago, IL 60611 Have MII	Video Production Group Mark Wilder 511 Court St Pekin, IL 61554 (309) 353-6158 Have MII
Valencia College Jim Barber Film Technology Program, Mail Stop 3-2 701 N. Econlockhatchee Trail Orlando, FL 32825 (407) 299-5000 x2415 Have MII	IBM Tommy Lee 3100 Windy Hill Rd. Internal Zip WE1C1 Marietta, GA 30067 (404) 835-3492 Have MII	Video Duplication David Heslin 3095 Presidential Dr. Ste F Atlanta, GA 30340 (800) 235-9732 Have MII	Bloomquist & Associates, Inc Dick Bloomquist 828 N. Addison Ave Elmhurst, IL 60126 (708) 530-4077 Have MII	Norwest Communications, Inc. Mark Karney 123 S. Hough St. Barrington, IL 60010 (708) 381-3271 Have MII	Video Replay Ron Norinsky 118 West Grand Ave. Chicago, IL 60610 (312) 822-0221 Have MII
Vaughn Duplication Services Ric Everett 5414 Beaumont Center Dr., Ste 202 Tampa, FL 33634 (813) 887-3141 Have MII	IBM Victoria Pendleton 3100 Windy Hill Rd. Internal Zip WE1C1 Marietta, GA 30067 Have MII	Video Supply Sales Co. Mark Radford 3440 Oakcliff Rd. Suite 112 Atlanta, GA 30340 (404) 458-2468 Dealer	Business TV Associates Mark Hewitson RR 1, Box 71 McLean, IL 61754 (309) 874-2908 Have MII	Provid Supply Regina Szpak 896 Webster Ln Desplaines, IL 60016 (708) 299-7832 Supplier	Video-Tech Production Alan Thursby P.O. Box 2251 1602 Melrose Ct. Decatur, IL 62526 (217) 877-9422 Have MII
Videocam Export Co. Juan Carlos Carrillo 7305 NW 36th Street Miami, FL 33166 (305) 592-2034 Have MII	Lewis Broadcasting Co. Wallace Tidwell PO Box 61268 Savannah, GA 31420 (912) 925-0022 No MII	Videotography Inc Damon Smith PO Box 8263 Savannah, GA 31412 No MII	Center Video Rex Balz 5615 W. Howard Street Niles, IL 60648 (800) 621-4354 Supplier	Southern Illinois University John Kautzer Campus Box 1775 Edwardsville, IL 62026 (618) 692-2230 Have MII	WICD-TV David Boyer 250 Country Fair Dr. Champaign, IL 61821 (217) 351-8500 Have MII
Videotaping Services Inc Dale Sweet 1911 Manor Circle Dr Winterhaven, FL 33880 Have MII	Lithonia Lighting Mike Rogers Video Communications 1400 Lester Rd Conyers, GA 30207 (404) 922-9000 x2517 Have MII	Zan Productions Roseann Bush 1390 E Rock Springs 4 Atlanta, GA 30306 (404) 872-0719 Have MII	Copymaster Video Larry Stengren 711 E. Fairfield Ave. Villa Park, IL 60181 (708) 279-1276 Have MII	State Farm Insurance Gary Chambers 1 State Farm Plaza Bloomington, IL 61710 (309) 766-6176 Have MII	WIFR-TV Willard Shears PO Box 123 Rockford, IL 61105 (805) 987-5300 Have MII
Video Techniques, Inc. Robert Lorentzen PO Box 9649 Bradenton, FL 34206- 9649 (813) 746-4949 Have MII	National Video Exposure Clyde Land 5100 Kerry Dr. Atlanta, GA 30331 (404) 344-1551 Have MII	Hawaii Hot Shot Productions Jim Abell PO Box 1297 Kapa, HI 96746 No MII	Ed Janik Productions Ed Janik RR 2, Box 94C Pleasant Plains, IL 62677 (217) 626-1976 Have MII	State Farm Insurance Randy Smith 1 State Farm Plaza Bloomington, IL 61710 (309) 766-6176 Have MII	WTVO Al Petzke 1917 N Meridian Rd Rockford, IL 61105 (815) 963-5413 Have MII
Vue-Com Inc. Marshall Ham 1126 S Division Ave Orlando, FL 32805 (407) 423-7869 Dealer	Northwest Airlines, Inc. Bob Sharrett 1000 Inner Loop Road Atlanta GA 30337-6072 (404) 530-6955 Have MII	Video Concepts Bob Ramacher 535 Lipoa Pkwy Kihei, Maui, HI 96753 (808) 879-1329 Have MII	Illinois Central College Tom Boyer 1 College Drive East Peoria, IL 61635 Have MII	State Farm Insurance Steve Snyder 1 State Farm Plaza Bloomington, IL 61710 (309) 766-3368 Have MII	WYCC-TV Donald Rhodes 7500 S. Pulaski Rd. Chicago, IL 60652 (312) 838-4853 Have MII
WDZL Bob Castillo 2055 Lee St. Hollywood, FL 33020 (305) 925-3939 Have MII			JRC Productions Rob Aiello 528 Northlake St Aurora, IL 60506 (708) 896-4250 Have MII	Televest Video Services Don Shannon 6533 West North Ave Oak Park, IL 60302 (708) 383-5588 Have MII	Ball State University Bill Cahoe University Media Services Muncie, IN 47306 (317) 285-1487 Have MII

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Ball State University Jim Scott University Media Services Muncie, IN 47306 (317) 285-1487 Have MII	Wolfe Communications Inc. Dion Wolfe Box 105 Valparaiso, IN 46383 (219)464-5019 Have MII	Smokey Hills Public TV Lloyd Mintzmeyer PO Box 9 Bunker Hill, KS 67626 (913) 483-6990 Have MII	World Christian Church Leslie Johnson Film Dept. #1808 Hwy 59 Mandeville, LA 70448-4000 No MII	Henry Joseph, III 10169 New Hampshire Ave. Suite 198 Silver Spring, MD 20903 (301) 434-7347 No MII	Ritz Audio/Visual Scott Grady 6620 Virginia Manor Beltsville, MD 20705 No MII
Ball State University Chris Weyers BC#179 Muncie, IN 47304 (317) 285-8185 Have MII	WTTV Fred Baumgartner 3490 Bluff Road Indianapolis, IN 46202 (317) 787-2211 Have MII	University of Kansas Brian Powell Athletic Dept.-Football Allen Fieldhouse Lawrence, KS 66045 Have MII	Maine James Waligora 3555 N. Raymond Rd Poland Spring, ME 04274 No MII	Image Productions John Young 111 South Potomac St. Hagerstown, MD 21740 (301) 739-4590 Have MII	Sign Media Inc. Verden Ness 4020 Blackburn Lane Burtonsville, MD 20866 (301) 421-0268 Have MII
Maginity Video Productions Harry Maginity 4330 Forrest Manor Ave Indianapolis, IN 46226 Have MII	Iowa American Heritage Cable Brian Sawyer 1729 McPherson Ave Council Bluffs, IA 51503 (712) 328-7207 Have MII	Kentucky Dench Video Services, Inc. Tim Dench 9141 Bardstown Rd. Louisville, KY 40291 (502) 239-0229 No MII	Maryland AVA Productions Dick Slade 1412 Northcrest Drive Silver Spring, MD 20904 (301) 384-9595 Have MII	Infovideo Don Lyman 4833 Del Ray Ave. Bethesda, MD 20814 (301) 986-8811 No MII	Specialized Communications Dave Clayberg 907 Maryland Ave. Hagerstown, MD 21740 (800)359-1858 (301)790-0103 Repair
Sho-n-Tell Rollie Bunce 8241 Milhouse Rd Indianapolis, IN 46241 (317)856-5418 No MII	Cedar Rapids Television Co. Bruce Kruse Second Ave. at Fifth St, SE Cedar Rapids, IA 52401 (319)398-8422 Have MII	S & W Productions Tom Prigge 459 Broyles Ave Paducah, KY 42003 (502) 554-3057 Have MII	Bell Atlantic Tom Erdely 801 Roeder Road Silver Spring, MD 20910 (301) 565-8663 Have MII	Johns Hopkins APL Bob Grauel Johns Hopkins Rd Columbia, MD 20723 (301) 953-6786 Have MII	TCI Cablevision Bob Hidey 201 S. Mechanics St Cumberland, MD 21502 (301)722-6547 Have MII
Versatile Video Services, Inc. Terry Burke P.O. Box 333 Yorktown, IN 47396 (317) 759-4747 No MII	Iowa State University Denny Goodrich Media Production Unit Exhibit Hall S Ames, IA 50011 (515) 294-2316 Have MII	S & W Productions Terry Schmitt 459 Broyles Ave Paducah, KY 42003 (502) 554-3057 Have MII	Carpel Video Andy Carpel 429 E. Patrick St Frederick, MD 21701 (800) 238-4300 supplier	Preston Trucking Bob Lyons 151 Easton Blvd. Preston, MD 21655 (301) 673-7151 Have MII	TPI Productions Bill Perkins 5410 Goldsboro Road Bethesda, MD 20817 (301) 320-5979 Have MII
Video Management Systems Dan Hall 1004 E. Washington Street Indianapolis, IN 46202 (317) 639-6163 Have MII	Iowa State University Jim Twetten Media Production Unit Exhibit Hall S Ames, IA 50011 (515) 294-2316 Have MII	WPSD-Engineering Dept. Jim Franklin P.O. Box 1197 Paducah, KY 42002-1197 (502) 442-8214 Have MII	Colorlab Russ Suniewick 5708 Arundel Ave. Rockville, MD20852 (301) 770-2128 Have MII	PG County Office of TV Resources Don Mattingly 8437 Landover Road Landover, MD 20785 (301) 386-1629 Have MII	Video on Location Jimmy Veizis 11600 Nebel St. Rockville, MD 20852 (301) 984-5823 Have MII
Video Management Systems Jeff McFall 1004 E. Washington Street Indianapolis, IN 46202 (317) 639-6163 Have MII	Kirkwood Community College Joe Taylor 6301 Kirkwood Blvd SW Cedar Rapids, IA 52406 (319)398-5620 Have MII	Louisiana Newcomer Young Productions James Young 201 Trenton St West Monroe, LA 71291 (318)325-4413 Have MII	Communications Televideo Ltd. Paul Farren 9301 Georgia Ave. Silver Spring, MD 20910 (301) 585-6311 Dealer	Prince Georges Co. Public Schools Scott Schiller 8437 Landover Road Landover, MD 20785 Have MII	Video on Location Dino Veizis 11600 Nebel St. Rockville, MD 20852 (301) 984-5823 Have MII
WIPB-TV Bob Fairchild PO Box 1708 Muncie, IN 47308 (317)285-1249 Have MII	Pratt Audio Visual & Video Corp. Cynthia Egger 200 Third Ave., SW Cedar Rapids, IA 52404 (319) 363-8144 Dealer	Newcomer Young Productions Ken Purcell 201 Trenton St West Monroe, LA 71291 (318)325-4413 Have MII	Fay Communications Inc. Tim Fay 802 Argyle Rd Silver Spring, MD 20901 (301)588-0778 Have MII	Prince Georges Co. Public Schools Chuck Wolfe 8437 Landover Road Landover, MD 20785 Have MII	Video Transfer, Inc. Ernie Aschenbach 5709 Arundel Ave. Rockville, MD 20852 (301) 881-0270 Have MII
WIPB-TV James Miller PO Box 1708 Muncie, IN 47308 (317)285-1249 Have MII	Kansas First Generation Video Wink Friesen 1802 N. Plum Hutchinson, KS 67502 (316) 662-9262 Have MII	Newcomer Young Productions Chris Turner 201 Trenton St West Monroe, LA 71291 (318)325-4413 Have MII	Fuji Film J. Thomas Baum 1089 Heathers Dr. Westminster, MD 21158-3602 (301) 876-9590 Manuf.	Professional Products, Inc. James Baldwin 4964 Fairmont Ave. Bethesda, MD 20814 (301) 657-2141 Dealer	VMAG Kendra Cook 5410 Goldsboro Road Bethesda, MD 20817 (301) 320-0077 Have MII
WKJG-TV Matt Kyle 2633 West State Blvd Ft. Wayne, IN 46808 (219)422-7474 Have MII	KSAS-TV David Bird 316 N. West St. Wichita, KS 67203 (316)942-2424 Have MII	New Orleans Convention Center Mike Blohm-Technical Services 900 Convention Center Blvd New Orleans, LA 70130 (504) 582-3062 No MII	Global Vision Tariq Nazir PO Box 535 Reisterstown, MD 21136 (301)356-6715 No MII	Professional Products, Inc. Bob Williams 2605 N. Rolling Rd, Suite 406 Baltimore, MD 21207-1960 (301) 298-7111 Dealer	WBFF Del Parks 2000 W. 41st. Street Baltimore, MD 21211 (301) 467-4545 Have MII
WFFT-TV Mac McShane 3707 Hillegas RD Ft. Wayne, IN 46808 (219) 424-5555 Have MII	Majec Video Productions Jordan Gershon 9275 Flint St Overland Park, KS 66214 (913)894-1188 Have MII	Vidox Chris Allain 1223 St. John Lafayette, LA 70506 (318)237-1700 Have MII	Hocus Focus Productions Don Armstrong 200 E Joppa Rd, Ste L105 Towson, MD 21204 (410)832-5740	Ralph Graves Productions, Inc. Bill Graves 5161 River Rd, Bldg 2, Suite 103 Bethesda, MD 20816 (301) 986-4577 Have MII	WHAG-TV Wayne Younkins 13 E. Washington St. Hagerstown, MD 21740 (301) 797-4400 Have MII

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Massachusetts

A/V Services
Bob Pooler
674 Mass Ave (Rt 111)
Boxborough, MA 01719
(508) 263-7727
Have MII

Bob Benson Video Film
Robert Benson
287 Chappel St
Holden, MA 01520
(508) 829-4105
Have MII

The Camera Corp
Marty Feldman
858 Providence Hwy
Norwood, MA 02062
Dealer

Crimson Tech
Lee Wolloff
325 Vassar St
Cambridge, MA 02139
(617) 868-5150
Dealer

GTE Labs, Inc.
Rich Weiland
40 Sylvan Rd.
Waltham, MA 02254
(617) 466-4151
Have MII

LCR Productions
Leo Rotkiewicz, Jr.
46 Elm St
South Deerfield, MA
01373-1006
(413) 665-2946
No MII

Media Partners of MA
Gary Pink
1837 Ocean St.
Marshfield, MA 02050
(617) 837-5301
Have MII

MIT Earth & Planetary
Sciences
Tim Dowling
18 Vassar St Bldg 54-420
Cambridge, MA 02139
(617) 253-1785
Have MII

New England
Cablevision
Jerry Klinow
38 Blackburn Center
Gloucester, MA 01930
(508) 281-2285

Plainsong Productions
Ben Achtenberg
47 Halifax Street
Jamaica Plain, MA
02130
(617) 524-0980
No MII

Post Time Productions
Fred Mycroft
340 Anawan Street
Rehoboth, MA 02789
Have MII

ProMEDIA
Florian Cabral
246 Palmer Street
Fall River, MA 02724
(508) 994-0447
Have MII

Studio 5 Productions
Bill Lowell
5 TV Place
Needham, MA 02192
(617) 449-0400
Have MII

Thom McAn
Greg Lindgren
67 Millbrook St.
Worcester, MA 01606
(508) 791-3811
Have MII

Video Information
Productions
Mark Cavanaugh
PO Box 5986
Marlborough, MA 01752
(508) 481-6823
No MII

WNAC-TV
Gary Sprague
33 Pine St
Rehoboth, MA 02769
Have MII

Michigan

Christian Family Centre
Paul Maybee
1800 W US 223
Adrian, MI 49221
(517) 263-6232
Have MII

Delta College
Harold Conley
University Center, MI
48710
(517) 686-9354
Have MII

Digital Animation Corp.
Ron Ware
24445 Northwestern
Hwy, Suite 105
Southfield, MI 48075
(313) 354-0890
No MII

Dan Fitzgerald
P.O. Box 126
Tecumseh, MI 49286
(517) 423-8124
No MII

International Learning
Systems, Inc.
Larry S. Bothe
Rm 120 Bell Hall
Andrews University
Berrien Springs, MI
49103-0087
(616) 471-6052
Have MII

PKH Video
Peter Hickman
1997 M-50
Tecumseh, MI 49286
(517) 423-2137
Have MII

Q-1 Video Network
Tim Hart
62 Division
Coldwater, MI 49036
(517) 279-8752
Have MII

Thalner Electronic Labs
Karl Couyoumjian
7235 Jackson Rd.
Ann Arbor, MI 48103
(313) 761-4506
Dealer

Thalner Electronic Labs
John Young
PO Box 96
Bangor, MI 49013
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University of Michigan,
METN
Jerry McCarty
RM 1020 HH Dow Bldg
Ann Arbor, MI 48109-
2136
(313) 763-1233
Have MII

Vivid Visions, Inc
Christopher Hart
9282 General Dr., Suite
130
Plymouth, MI 48170
(313) 453-7770
Have MII

VPM Studios
Gene Casaroll
13761 Bell Court
Stirling Heights, MI
48312
(313) 939-8680
Have MII

Western Michigan Public
Broadcasting
Tim Scarpino
301 West Fulton
Grand Rapids, MI
49504-6492
(616) 771-6666
Have MII

Western Michigan
University
James Kirkland
Television Department
Kalamazoo, MI 49008-
3899
(616) 387-5040
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Brad Morgan
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5167
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107 N. Franklin St
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WNEM TV 5
Michael J Miller
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Saginaw, MI 48606
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WXYZ
Mike Doback
PO Box 789
Southfield, MI 48037
(313) 827-9490
Have MII

WZZM-TV
Chuck Mikowski
645 Three Mile Rd N.W.
Grand Rapids, MI 49504
Have MII

Minnesota

3M
Bob Herman
3M Center
Building 223-5N-01
St Paul, MN 55119
(612) 736-2549
Manuf.

Alpha Video
Ben Vogel
7836 2nd Ave. S.
Bloomington, MN 55420
Dealer

Audio Visual
Wholesaler
Tom Toutges
5395 31st Ave
Plymouth, MN 55447
Dealer

Century Design
Jody Heurung
530 15th Ave. S.
Hopkins, MN 55343-
7889
(612) 935-0033
Have MII

Champion Auto Stores
Larry Gilbertson
5520 N. Highway 169
New Hope, MN 55428
(612) 535-5984
Have MII

Cinequipt
Kevin Groves
856 Raymond Ave
St Paul, MN 55114
(612) 646-1780
Dealer

Conus Communications
Jonathan Meyers
3415 University Ave
St Paul, MN 55114
(612) 642-4637
Have MII

Grant Booker Video
Terry Grant
2543 Nicollet Ave. S
Minneapolis, MN 55404
(612) 870-0028
Have MII

KARE
Norm Beardsley
8811 Olson Memorial
HWY
Minneapolis, MN 55427
(612) 546-1111
Have MII

KTCA
Jerry Huiting
172 E. 4th St.
St. Paul, MN
(612) 222-1717
Have MII

Marketing By Video
Bill Hagan
6440 Flying Cloud Dr.,
STE 101
Eden Prairie, MN 55344
(612) 944-3323
Have MII

Mayo Clinic
Marvin Mitchell
Video Communications
Systems
Rochester, MN 55905
(507) 284-2511
Have MII

Miller Meester
Advertising
Dan Sauard
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(612) 337-9120
Have MII

Northland Insurance
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Charlie Stellick
1295 Northland Dr.
St. Paul, MN 55120-1146
(612) 688-4721
Have MII

NW Airlines
Bob Brandia
5101 NW Dr
St. Paul, MN 55111
(612) 726-0355
Have MII

Promotional Films and
Video, Inc.
Al Peterson
1313 Cambridge St.
Hopkins, MN 55343
(612) 935-2183
No MII

Todd Communications
Tom Upmann
6545 Cecilia Cir.
Minneapolis, MN 55439
(612) 941-0556
Dealer

Vaughn Duplication
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Doug Olzendk
7951 Computer Ave
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Minneapolis, MN 55435
(800) 323-0281
Have MII

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Michelle Sahlin
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Have MII

Missouri

Duff Video Productions
Ron Duff
P.O. Box 881
Cape Girardeau, MO
63702-0881
(314) 334-1189
Have MII

KPLR
Jim Wright
4935 Lindell Blvd.
St. Louis, MO 63108
(314) 454-6306
Have MII

University of Missouri
Video Network
James Gaar
301 Fine Arts Bldg
UMKC
Kansas City, MO 64110-
2499
(816) 235-1094
Have MII

Vaugh Duplication
Services
Pete Leverenz
13241 Tandem Drive
Creve Coeur, MO 63146
(314) 576-6804

Montana

Eagle Communications,
Inc.
C.J. Cannaliato
PO Box 5268
Missoula, MT 59806
(406) 721-2063
Have MII

KECI-TV
Larry Arbaugh
PO Box 5268
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(406) 721-2063
Have MII

KCFW-TV
Chris Neuhausen
PO Box 857
Kalispell, MT 59901
(406) 755-5239
Have MII

KTVM
Bill Ward
750 Dewey Blvd
Butte, MT 59701
(406) 494-7603
Have MII

KULR-TV
Dean Jansma
PO Box 80810
Billings, MT 59108
(406) 656-8000
Have MII

Nebraska

Creighton University
Terence Barrio
2400 California St
Omaha, NE 68178
(402) 280-5124
No MII

Data Security Inc.
Wayne Boles
2801 N. 27th St.
Lincoln, NE 68521
(800) 225-7554
Manuf.

Garner Industries
Scott Torres
4200 N 48th
Lincoln, NE 68504
(800) 228-0275
Manuf.

Godfathers Pizza Inc.
Tom Elkins
9140 W Dodge Rd
Omaha, NE 68114
(402) 391-1452
Have MII

Godfathers Pizza Inc.
Matt Kush
9140 W Dodge Rd
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(402) 391-1452
Have MII

WOWT-TV
Rick Klutts
3501 Farnam
Omaha, NE 68131
(402) 346-6666
Have MII

Nevada Markone Video Mark Carey 1030 Bibleway 6 Reno, NV 89502 (702)786-6464 Have MII	CNBC Kevin Kudatzky 2200 Fletcher Ave. Fort Lee, NJ 07024 Have MII	KGSW-TV Mark Gardner 1377 University Blvd NE Albuquerque, NM 87102 Have MII	Bausch & Lomb Terry Shaw 1400 N. Goodman St. Rochester, NY 14692 (716) 338-8779 Have MII	Duckball Al Arthur 532 LaGuardia Pl Box 370 New York, NY 10012 (718)599-2385 Have MII	Manhattan Cable TV Fred Ciccone 120 E 23rd St New York, NY 10010 (212)598-7269 Have MII
Truckee River Studios, Inc. Larry Beldon PO Box 1529 Verdi, NV 89439 (800) 824-0977 Have MII	Creative Associates Harrison Feather 626 Bloomfield Ave. Verona, NJ 07044 (201) 857-3444 No MII	New Mexico Highlands Univ. Drake Bingham Communication Arts Bldg Las Vegas, NM 87701 (505)454-3353 Have MII	B & B Systems, Inc. Norman Schnapper 630 3rd Ave. New York, NY 10017 (212)599-0375 Supplier	Elite Video Production Kalmon Zeines 1612 E. 14th St Brooklyn, NY 11229 (718) 627-0499 Have MII	Manhattan Cable TV James Oakes 120 E 23rd St New York, NY 10010 (212)598-1787 Have MII
New Hampshire Channel One Video Bill Channel PO Box 1437 Seabrook, NH 03874 (603) 474-5046 No MII	Edit Masters David Lane 1000 Laurel Oak Corp Center Voorhees, NJ 08043 (609) 784-1177 Have MII	New Mexico Technical Institute Paul Hofman Geoscience Dept. Socorro, NM 87801-4796 (505)835-5108 Have MII	BCS Walter Druker 460 W. 34th Street New York, NY 10001 (212) 268-8800 Supplier	Greater Rochester Cable Harry Goldberg 71 Mount Hope Ave Rochester, NY 14620 (716) 325-1111 Have MII	Moyse & Associates, Inc Claude Moyse PO Box 831 Latham, NY 12110 (518) 783-6221 Have MII
Icicle Productions Erik Lourette 7 Hampstead Rd Box 439 Sandown, NH 03873 No MII	Garden State Cable TV Martin Otremsky 1250 Haddenfield-Berlin Rd. Cherry Hill, NJ 08034 (609) 354-1223 Have MII	PCI, Inc. Idella Cantrell 1595 W. Amador Ave Suite H Las Cruces, NM 88005 Dealer	Bravo Studio Michael Shkolnikov 2055 E 57th St Brooklyn, NY 11234 (718) 377-4411 No MII	HAVE, Inc. Paul Swedenburg 309 Power Ave. Hudson, NY 12534 (518)828-2000 Have MII/Supplier	Nassau County Police (VISCOM) Benjamin Homenick 1490 Franklin Ave. Mineola, NY 11501 (516) 573-7013 Have MII
New Jersey Audio + Video Post Tony Beswick 235 Pegasus Ave Northvale, NJ 07647 (201) 784-2818 No MII	New Life Productions Richard Myers PO Box 5500 Millville, NJ 08332 (609)825-3332 Have MII	Sandia National Labs Jim Lloyd Organization 7212 P.O. Box 5800 Albuquerque, NM 87185 (505) 844-3867 Have MII	Broadcast Video Productions Jack Miller 480 Main Street Armonk, NY 10504 (914) 273-6649 Have MII	Herkimer County Community College Bob Schultz Reservoir Rd Herkimer, NY 13350 (315)866-0300x238 Have MII	NBC News Archives Yuien Chin 30 Rockefeller Plaza, RM 922 New York, NY 10120 (212) 664-5223 Have MII
Avon Productions Fred Lipowitz 123 Matis Street South Plainfield, NJ 07080 (908) 756-0643 Have MII	NBC Mr. Wayne Grennier 101 Broad Avenue Fairview, NJ 07022 Have MII	Sandia National Labs Charles Johnson Div 9249 Box 5800 Albuquerque, NM 87185 (505)844-7911 Have MII	Broadway Video Inc. Dave Radin 1619 Broadway 10th FL New York, NY 10019 (212)265-7600	Henry Joerz, Jr 7230 73rd St Glen Dale, NY 11385 No MII	NBC News Mark Chomut 30 Rockefeller Plaza, RM 737 New York, NY 10120 (212) 664-5888 Have MII
Bell Atlantic Corporate Television Richard Deiss 540 Broad Street, Room 400 Newark, NJ 07101 (201) 649-3885 Have MII	Telemetrics Anthony Cuomo 7 Valley St Hawthorn, NJ 07506 (201) 423-0347 Have MII	Troxell Terry Hixson 2730 San Pedro, NE Albuquerque, NM 87110 Dealer	Bronx Community College Prof. Donald Canty 184 th St & University Ave Bronx, NY 10453 Have MII	HITN Jose Rodriguez 449 Broadway 13 New York, NY 10013 Has MII	NBC News Joe Marrone 30 Rockefeller Plaza, RM 737 New York, NY 10120 (212) 664-5888 Have MII
Bottom Line Television Mike Moran 6 Northwest Blvd Newfield, NJ 08344 (609) 697-4661 Have MII	United Artists Cable Peter Strang-Wolf 421 Allwood Rd Clifton, NJ 07012 (201) 779-2444 Have MII	New York AICPA Will Aygerakis TV Studio 5th Floor 1211 6th Ave. New York, NY 10036 (212) 575-5490 Have MII	Camera Mart Steve Gordon 456 W. 55th St. New York, NY 10019 (212) 757-6977 Supplier	Hofstra University Mark Sugarman Special Events A/V 112 Student Center Hempstead, NY 11550 No MII	NBC Bill Sacrey 30 Rockefeller Plaza Rm 1210W New York, NY 10112 (212) 664-7140 Have MII
Cassette Dub Inc. Paul Ranieri 245 Livingston Street Northvale, NJ 07647 (201) 767-7077 Have MII	WJ Kronemyer Associates Bill Kronemyer 280 East Glen Ave. Ridgewood, NJ 07450 (201) 445-1919 No MII	AICPA Jim Catone TV Studio 5th Floor 1211 6th Ave. New York, NY 10036 (212) 575-5490 Have MII	Center for Video Education Pat Shafer 56 Lafayette Ave N White Plains, NY 10603 (914)428-9620 No MII	IATSE Karen Pizzuto 1515 Broadway #601 New York, NY 10036 No MII	NBC Mr. Andy Morris 30 Rockefeller Plaza Rm 1210W New York, NY 10112 Have MII
Champagne Productions Joe Costello 35 Long Valley Rd Lodi, NJ 07644 (201)368-8122 Have MII	Z F/X Video Production Al Martucci 140 Arlington Blvd North Arlington, NJ 07031 (201)997-2191 No MII	Allen AME Church Gary Fulmore 1100-54 Merick Blvd Queens, NY 11432 (718) 526-3510 No MII	Colortone Bob Siebern 76 S. Central Ave. Elmsford, NY 10523 (914) 592-4151 Dealer	IBM East Fishkill Joseph Chin Rt 52 Dept-31U, zip 22A Hopewell Junction, NY 12533 (914)894-8464 Have MII	NBC News Mel Weidner 30 Rockefeller Plaza, RM 807 New York, NY 10112 (212) 664-6118 Have MII
CNBC Mr. M. Reitman 2200 Fletcher Ave. Fort Lee, NJ 07024 Have MII	Four M Video Inc EF Morrill PO Box 736 Cedar Crest, NM 87008 No MII	All Pro Production Nathan Bacher 124 W. 60th St., Suite 20B New York, NY 10023 (212) 489-5780 Have MII	Colortone Jack Miller 76 S. Central Ave. Elmsford, NY 10523 (914) 592-4151 Dealer	Locke Productions Christopher Johnson 14336 Oak Ave Flushing, NY 11355 No MII	NBC News Stu Pearson 52-37 Second St Long Island City, NY 11101 (718) 482-8310 Have MII
	G.C.Video, Inc. Diane Bogle 425 Eubank Blvd, NE Suite E Albuquerque, NM 87123 (505) 293-6509 Dealer		CoarcVideo Edward Helfer Jr. PO Box 2, Rt 217 Mellenville, NY 12544 (800) 888-4451 Supplier	Manhattan Cable TV Dean Adrian 120 E 23rd St New York, NY 10010 (212)598-7278 Have MII	

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New Matchback Dan Aizenstat 605 2nd Ave Suite 3 New York, NY 10016 (212) 685-6283 Have MII	A&T State University Arthur D. Selby Greensboro, NC 27406 No MII	Target Television Don Kirk 1001 S Marshall St Winston-Salem, NC 27101 Have MII	Ohio	RDB Productions Russ Beckner 2100 Heatherwood Ct Middletown, OH 45042 (513) 422-9552 Have MII	WKYC-TV Gerald Plemmons 1403 E. 6th St. Cleveland, OH 44114 (216) 344-3353 Have MII
New York City Sanitation Department Mike Barbarotto Audio Visual Services Unit PO Box 213 Maspeth (Queens), NY 11378 (718) 507-3543 Have MII	Camp Lejeune Dept. Schools Mirjam Bohnet Camp Lejeune, NC 28542 No MII	TeleFox Bill Hitchcock PO Box 2069 Moorehead, NC 28557 (919) 240-7340 Have MII	Advanced Video Jeff Costa 1312 Wise Dr Miamisburg, OH 45342 (513) 461-6800 Have MII	Riverside Film & TV Productions Rob Richardson, Jr. PO Box 543 Marrietta, OH 45750 (614) 373-0861 Have MII	WNED-TV Alan Creed 13870 Salem Alliance Rd Salem, OH 44460 (216) 337-3755 Have MII
New York Telephone William Basciano 1095 Avenue of the Americas, Rm 1600 New York, NY 10036 (212) 395-0111 Have MII	Junior Johnson & Associates Ron Dauenhauer Wilkesboro, NC 28697 (919) 984-2101 Have MII	Video Perception Rick Hall 1016 S Church St Charlotte, NC 28203 (704) 358-0900 Have MII	Classic Video Dave Ginaven 5001 E. Royalton Rd Cleveland, OH 44147 (216) 838-5377 Have MII	Stanley Steamer Int'l Steve Whitley 5500 Stanley Steamer Pkwy Dublin, OH 43017 (614) 764-2007x553 No MII	Oklahoma
Northstar Television Group Mark Olkowski 405 Lexington Ave, 54th Floor New York, NY 10174 No MII	Long Communications Group Spencer Bullins 961 Burke St Winston-Salem, NC 27101 (919) 725-2306 Dealer	Walt Kline & Assoc. Mike Laur 200 Brookstown Ave Winston Salem, NC 27101 (919) 727-4900 No MII	Claybaugh Enterprises Inc David Clay baugh 2959 Layhigh Rd Hamilton, OH 45013 (513) 738-0880 Have MII	TW Teleproductions, Inc. Tom Whaley 141 E Water St Sandusky, OH 44870 (419) 621-0602 Have MII	Barrister Studios Phil Atkinson 4305 S Mingo Ste A Tulsa, OK 74146 (918) 663-7700 Have MII
PCI Recording Service Ted Hummel 737 Atlantic Ave. Rochester, NY 14609 (716) 288-5620 No MII	Long Communications Billy Register 1018 Morrisville Pkwy, Ste D Morrisville, NC 27560 (919) 481-1188 Dealer	WECT Wayne Tiner 322 Shipyard Blvd Wilmington, NC 28401 (919) 791-8070 Have MII	GE Dan Kerr Videoconference Center One Neuman Way Cincinnati, OH 45215 (513) 243-3695 Have MII	Vanguard Productions Jerry Beck 7064 Huntley Rd Columbus, OH 43229 (614) 436-4610 Have MII	BCD Assoc. RM Howard 7510 N. Broadway Oklahoma City, OK 73116 Manuf.
PDR Productions Neil Derosa 219 E. 44th St New York, NY 10017 (212) 986-2020 Have MII	Lowe's Companies, Inc. Bill Hurd PO Box 1111 North Wilkesboro, NC 28656 (919) 651-4933 Have MII	WFXI-TV Michelle LaRock PO Box 2069 Moorehead, NC 28557 (919) 240-0888 Have MII	Horizon Production, Inc. Bill Jacobs 2321 Kemper Ln Cincinnati, OH 45206 (513) 559-0550 Have MII	Video Duplication Services Pete Stock PO Box 18337 Columbus, OH 43218 (800) 289-4301 Have MII	KJRH Vic Turner 3701 S. Peoria St Tulsa, OK 74105 (918) 743-2222 Have MII
SUNY Institute of Technology Steve Perta PO Box 3050 Utica, NY 13504 (315) 792-7180 Have MII	Marine Grafics Bill Lovin Box 2242 Chapel Hill, NC 27515 (919) 362-8867 Have MII	W.H. Platts Company Brooks Platts 2303 Distribution Charlotte, NC 28203 (704) 332-9053 Dealer	Image Video Teleproduction Mike Tonges 6755 Freedom Ave, NW North Canton, OH 44720 (216) 494-9303 Have MII	WAKC-TV Earl Miller 853 Copley Rd Akron, OH 44320 (216) 535-7831 Have MII	Teleproduction Unlimited Mel Elzea 5820 South 129th East Ave Tulsa, OK 74134 (918) 252-2909 Have MII
Vaughn Duplication Services Lloyd Dorfman 10 E. 39th St New York, NY 10016 (212) 447-1038 Have MII	Pumkin Creek Video Production Harold Ferguson 321 Coffee Ave North Wilksboro, NC 28659 (919) 667-7717 Have MII	WJZY Ed McKay PO Box 668400 Charlotte, NC 28266-8400 (704) 398-0046 Have MII	Industrial Video John Barak 1601 N. Ridge Rd E. Lorain, OH 44055 (216) 277-1218 Dealer	WBNX-TV Bill Coger 2690 State Rd Cuyahoga Falls, OH 44221 (216) 920-1019 Have MII	ViaGrafix Mike Webster 31 South Adair Pryor, OK 74361 (800) 842-4723 Have MII
Vertex Video Group Steven Zacharoff 1680 Bedford Ave. #22D Brooklyn, NY 11225 (718) 756-0438 Have MII	Sara Lee Direct Walter Orechwa 470 Haines Mill Rd Winston-Salem, NC 27105 (919) 744-8293 Have MII	WRAL Ron Tyndall 2619 Western Blvd Raleigh, NC 27606 (919) 821-8520 Have MII	Mission Video Support Paul Klouda 10011A State Rt. 88 Garrettsville, OH 44231 (216) 527-2182 Have MII	WEWS-TV Ed Miller 3001 Euclid Ave. Cleveland, OH 44115 (216) 431-3687 Have MII	Oregon
Vlahos Communications Harvey Vlahos State RT 156 Altamont, NY 12009 (518) 861-8176 No MII	Sara Lee Direct Chuck Morris 470 Haines Mill Rd Winston-Salem, NC 27105 (919) 519-7121 Have MII	UND Aerospace John Ness PO Box 8009 Grand Forks, ND 58202-8009 (701) 777-4722 Have MII	Mission Video Support Vince Sisson 10011A State Rt. 88 Garrettsville, OH 44231 (216) 527-2182 Have MII	WHIZ-TV Elmer Hartmeyer 629 Downard Rd. Zanesville, OH 43701 (614) 453-4079 Have MII	Columbia Cable of OR Jim DeChant 14200 SW Brigadoon Ct. Beaverton, OR 97005 (503) 644-3188 Have MII
WPIX Bob Murch 222 42nd St New York, NY 10017 (212) 210-2552 No MII	Southern Video Corp. Louis Asbury 1016 S. Church St Charlotte, NC 28203 (704) 333-5454 Have MII	WDAY-TV Joel Aagenas 301 8th Street So. Fargo, ND 58103 (701) 237-6500 Have MII	Ohio Bell Telephone Company Dave Kennett 100 Erie View Plaza, Rm 230 Cleveland, OH 44114 (216) 822-3770 Have MII	Wiegand Audio/Video Labs Charles Wiegand 7758 Lafayette Rd, NW Newark, OH 43055 (614) 967-0059 Supplier	Fishing the West Kerry Brown 5484 SE International Way Milwaukie, OR 97222 (503) 654-0092 Have MII
North Carolina	Southern Video Corp. Gary Killough 1016 S. Church St Charlotte, NC 28203 (704) 333-5454 Have MII		WKYC-TV Andy Hitchcock 1403 E. 6th St. Cleveland, OH 44114 (216) 344-3356 Have MII	KBSP Tim Mance 4923 Indian School Rd, NE Salem, OR 97305 (503) 390-2202 Have MII	

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KMTR-TV Kurt Thelen PO Box 7308 Eugene, OR 97401 (503) 746-1600 Have MII	Pittsburgh Televideo Inc. 1738 N. Highland Rd. Suite 103 Pittsburgh, PA 15241 Have MII	WSEE-TV Dan Nungesser 1220 Peach St Erie, PA 16501 Have MII	Sound & Images Fess Shelton PO Box 26895 Greenville, SC 29616 (803)288-8400 Have MII	South Dakota Public TV Peter Egart PO Box 22188 Brookings, SD 57007-2399 (605)688-4191 Have MII	Texas Accelerated Christian Education Don Gray 2600 Ace Lane Lewisville, TX 75067 (214) 315-1776 Have MII
Portland Public Schools Jim Kunze Television Services 5210 N. Kerby St Portland, OR 97217 (503) 280-5838 Have MII	Pro Video Steve Zampana 1001 Sussex Blvd Broomhall, PA 19008 (215)328-7448 Dealer	Rhode Island Colony Cable Dave Ribblett 169 Weybosset Street Providence, RI 02901-0969 (401)277-7852 Have MII	Total Audio Visual Services Allan Doh 1 Winsor Cove Columbia, SC 29223 (803)788-1333 Dealer	Department of Ag Communications Stuart Fedt PO Box 2231, SDSU Brookings, SD (605)688-4507 No MII	Christian Video Ministries J.D. Dunson HCR 2 Beeville, TX 78102 (512) 358-3416 Have MII
Professional Video & Tape Bill Floyd 10240 SW Nimbus Ave Tigard, OR 97223 (503) 598-9142 Dealer	Quail Video Products Bill Frazier 949 Penn Ave Pittsburgh, PA 15221 (412) 243-1300 Dealer	Heritage Cable Joe Stafford PO Box 518 Lincoln, RI 02865 (401) 765-6652 Have MII	Video South Productions David Haskell 105 Cypress Plaza PO Box 2249 Myrtle Beach, SC 29578 (803)236-3030 Have MII	Tennessee Allied Communications Corp. Mark Conrad PO Box 101482 Nashville, TN 37224-1482 (615)5500 Have MII	CompuTrac Roger Young 222 Municiple Dr. Richardson, TX 75080 (214) 234-4241 Have MII
Teknifilm/Vaughn Jody McNamer 1434 NW 17 th Ave. Portland, OR 97209 (503)224-3835 Have MII	Quail Video Products Brian Nee 949 Penn Ave Pittsburgh, PA 15221 (412) 243-1300 Dealer	Logeographics Maria Houde PO Box 23535 Providence, RI 02903 No MII	Walton Productions Stan Walton 158 Cannondale Rd. Columbia, SC 29212 (803) 731-0871 Have MII	Linden Communication Group Michael Stevenson 17 W. Pontotoc Suite 207 Memphis, TN 38103 (901) 523-0506 No MII	ECI Video Shawn Sterling 2809 Ross Ave Dallas, TX 75201 (800)880-9400x224 Dealer
Pennsylvania Action Duplication Craig Kuptsow 555 North Lane, Suite 5075 Conshocken, PA 19428 No MII	RPC Video Paul Hauser 384 Route 909 Verona, PA 15147 (412) 828-1414 Dealer	Narragansett TV William Hague 25 Catamore Blvd E Providence, RI 02920 (401)433-3317 Have MII	WBTW Doug Carter PO Box 100530 Florence, SC 29501 (803) 662-1565 Have MII	Miles & Associates John Miles 755 Broad St NW Cleveland, TN 37311 Have MII	ECI Video Johnny Griffin 2809 Ross Ave Dallas, TX 75201 (800)880-9400x218 Dealer
Allen Organ Company Clark Ferguson 150 Locust St Macungie, PA 18062 (215) 966-2202 Have MII	SMI Productions Stan Mack 5100 Tilghman St. Suite 20 Allentown, PA 18104 (215)398-8200 No MII	WPRI Mark Gordon 25 Catamore Blvd E Providence, RI 02914 (401) 438-7200 Have MII	W.H. Platts Company Billy Platts 710 King Street Charleston, SC 29403 (803)723-7604 Dealer	Shop At Home Network Alvin Hodges Hwy 32 Newport, TN 37871 (615)623-8000 Have MII	Fuji Photo Film Bob Sullivan 1628 West Crosby Road Suite 100 Carrollton, TX 75006 (214) 466-9200 Manuf.
Barlieb Wallace Heilman Productions Pamela Wallace 1680 Mine Site Rd Allentown, PA 18103 (215)395-7176 Have MII	Video Spectrum Wayne Stephany 630 Hedgewick Dr Lancaster, PA 17603 (717) 394-4042 Have MII	South Carolina Action Video Productions Tommy Cabaniss 9 E. Parkins Mill Rd Greenville, SC 29607 (803)297-8865 Have MII	KSFY Doug Loos 300 N. Dakota Ave, Suite 1000 Sioux Falls, SD 57102 (605) 336-1300 Have MII	Shop At Home Network Buddy Winsett Hwy 32 Newport, TN 37871 (615)623-8000 Have MII	Hatikvah Ministries Brian Jones 2437 Bay Area Blvd, Ste. 143 Houston, TX 77058 (713)286-2480
Bell Atlantic Morris Hawk 1 Parkway, 2nd Floor Philadelphia, PA 19102 (215) 466-3896 Have MII	WHYY John Collins 150 N. 6th. Street Philadelphia, PA 19106 (215) 351-1274 Have MII	Cable Ad Connection Dave Rodney PO Box 746 Johns Island, SC 29457 No MII	KSFY Wayne Gudgel 300 N. Dakota Ave, Suite 1000 Sioux Falls, SD 57102 (605) 336-1300 Have MII	Tennessee Wildlife Resources Agency Mark Greenwald PO Box 40747 Nashville, TN 37204 (615) 781-6502 Have MII	Industrial Audio Video Mark Faulstich 2617 Bissonnet Houston, TX 77005 (713) 535-2375 Dealer
Cornerstone TV Kevin Robinson Signal Hill Dr Wall, PA 15148 (412) 824-3930 Have MII	WJAC Rob Abele 1949 Hickory Ln Johnstown, PA 15905 (814) 255-7600 Have MII	Greenville Technical College Michael Conet PO Box 5616 Greenville, SC 29606-5616 (803)250-8363 Have MII	South Dakota Public Broadcasting Wayne Nelson PO Box 5000 Vermillion, SD 57069 (605)677-5861 Have MII	Video Ideas 4762 Highway 58 Suite G Chattanooga, TN 37416 (615) 894-2677 Have MII	ISDL Priya Dasi 400 Barsana Rd Austin, TX 78737 (512) 288-7180 Have MII
Cornerstone TV Gary Stuart Signal Hill Dr Wall, PA 15148 (412) 824-3930 Have MII	WPGH-TV John Getz 750 Ivory Ave Pittsburgh, PA 15214 (412) 931-8141 Have MII	Prime Cuts Productions Lenny Spears 247 Riverland Dr James Island, SC 29412 (803)762-0719	South Dakota Public Broadcasting Larry Conlon PO Box 5000 Vermillion, SD 57069 (605)677-5861 Have MII	WMC-TV Mike Schwartz 1960 Union Ave. Memphis, TN 38104 (901) 726-0555 Have MII	J Darrell Kirkley Inc. Darrell Kirkley 11078 Morrison Dallas, TX 75229 (214) 243-0013 Have MII
Mine Safety Appliance Co. Josh Bayer PO Box 426 Pittsburgh, PA 15230 (412) 967-3198 Have MII	WPTT-TV Chief Engineer PO Box 2809 Pittsburgh, PA 15230 (412)856-9010 Have MII	Ron Shecut 3404 Keenan Dr Columbia, SC 29201 (803)765-2299 No MII	South Dakota Public Broadcasting Daniel Schiedel PO Box 5000 Vermillion, SD 57069 (605)677-5861 Have MII	World Class Productions Frank Weeks 1300 East 9th Ave Johnson City, TN 37601 (615)928-5753 Have MII	KCEN-TV Gerald Smith PO Box 6103 Temple, TX 76503 (817)773-6868 Have MII
NAMEDLOC Inc Lon Crosby 430 Hollybush Rd Bryn Maw, PA 19010 No MII					KTSM-TV Andrew Kiska 272 Shadow Mt 59 El Paso, TX 79912 (915)532-5421 Have MII

KTSM-TV Gregg Davison 801 N. Oregon St. El Paso, TX 79902 (915) 532-5421 Have MII	Siam Satellite-TV Mandonsiri Kartija Ari 7306 Logging Tr Humble, TX 77346 No MII	CXT Corp Jack Johnson 666 N. Main St Logan, UT 84321 Supplier	Video Lines Dennis Lisonbee 267 S. Mountainland Orem, UT 84058 (801) 226-0344 Have MII	Bon Aventure Video Communications David Jennings One Radio Lane Culpeper, VA 22701 (703) 373-5767 No MII	Norfolk Naval Shipyard A/V Department Bill Whitford Bldg 33 Code 120 Portsmouth, VA 23709 (804) 396-3408 Have MII
KTSM-TV Rick Vildardell 801 N. Oregon St. El Paso, TX 79902 (915) 532-5421 Have MII	Stillpoint Productions Robert Castaldo 706 W. Main St Arlington, TX 76013 No MII	DCE Marketing Kenneth Foster University of Utah 2167 Annex Bldg Salt Lake City, UT 84112 (801) 581-5588 Have MII	Video Reflections David Andrews 6086 Fontainebleu Salt Lake City, UT 84121 (801) 272-3031 Have MII	Zack Burkett Productions Zack Burkett 14162 Marquis Rd Unionville, VA 22567 (703) 854-6502 No MII	Park Avenue Teleproductions David Trowsell 3500 Maryland Ct Richmond, VA 23233 Have MII
KXXV Jerry Copeland PO Box 2522 Waco, TX 76702 (817) 754-2525 Have MII	Texas A & M University Bob Matey Video Lab Kyle Field College Station, TX Have MII	DCE Marketing Tori Smith University of Utah 2167 Annex Bldg Salt Lake City, UT 84112 (801) 581-5588 Have MII	Word Perfect Corp. Steve McCurdy 1555 N. Technology Way Orem, UT 84057 (801) 228-4916 Have MII	Commonwealth Film Inc Rodney Asbridge 1500 Brook Rd Richmond, VA 23220 (804) 649-8611 Have MII	Philip Morris USA Carmen Inge P.O. Box 26603 Richmond, VA 23261 (804) 274-3721 Have MII
KXXV Mike Jugert PO Box 2522 Waco, TX 76702 (817) 754-2525 Have MII	Texas Department of Public Safety Gene Henderson Media Production Unit PO Box 4087 Austin, TX 78773-0001 (512) 465-2217 Have MII	KBYU-TV Lynn Edwards C-302 HFAC BYU Provo, UT 84602 (801) 378-3551 Have MII	Word Perfect Corp. Todd Mortensen 1555 N. Technology Way Mail Stop KA110 Orem, UT 84057 Have MII	Corporate Communications Inc. Harold Wiggins 1630 W. Main St. Richmond, VA 23220 (804) 359-9423 Have MII	Public Broadcasting Service Mark Richer 1320 Braddock Place Alexandria, VA 22314 (703) 739-5471 Have MII
KXXV Lou Strowger PO Box 2522 Waco, TX 76702 (817) 754-2525 Have MII	Texas Education Agency Ernesto Mejia 1701 N Congress Ave Austin, TX 78701-1494 (512) 463-9054 Have MII	KBYU-TV Bob Gillman C-302 HFAC BYU Provo, UT 84602 (801) 378-3551 Have MII	Word Perfect Corp. Scott Myler 1555 N. Technology Way Orem, UT 84057 (801) 228-4900 Have MII	Empire Video Robert Rositzke 3412 Ramsgate Ter. Alexandria, VA 22309 (703) 360-6623 No MII	Public Broadcasting Service Larry Jefferson 1320 Braddock Place Alexandria, VA 22314 (703) 739-5204 Have MII
Legal Media Center Kevin McInturff 4151 SW Freeway Suite 715 Houston, TX 77027 (713) 963-0397 Have MII	The Video Eye Bob Fitch 10960 Mill Ridge N. Dr Suite 103 Houston, TX (713) 890-8364 Have MII	LDS AV Peter Unwin A/V Dept. 50 East North Temple Salt Lake City, UT 84150 Have MII	Vermont Iris Multimedia Robert Logsdan PO Box 726 Burlington, VT 05402 (802) 865-9560 No MII	Evening Productions Victoria Eves PO Box 2065 Falls Church, VA 22042 No MII	Public Broadcasting Service Keith Ellsworth 1320 Braddock Place Alexandria, VA 22314 (703) 739-5302 Have MII
Pierre Miron C 15205 S. Main Houston, TX 77035 (713) 499-8764 No MII	The University of Texas Health Science Center Sam Dement Television Production Services 7703 Floyd Curl Dr San Antonio, TX 78284 (512) 567-2220 Have MII	International Media Robert Hatch Boston Building, Suite 220 Salt Lake City, UT 84111 (801) 532-7770 Have MII	Virginia 2PM Multimedia Jim Wine P.O. Box 2 Linden, VA 22642 (703) 636-4142 Have MII	The Family Channel Russ Murphy 1000 Centerville Turnpike Virginia Beach, VA 23463 (804) 523-7874 Have MII	Reed Film & Video Lloyd Reed 4501 Sonata Court Fairfax, VA 22031 (703) 978-5988 Have MII
NEC America Broadcast Equipment Dept Jim Suttles 1417 Exchange Dr Richardson, TX 75081 (214) 907-4744 Manuf.	The University of Texas Sports Mike Arias Belmont Hall RM 224C Austin, TX 78713 (512) 471-6826 Have MII	Scott Nelson Productions Scott Nelson 5006 S. Fairbrook Holladay, UT 84117 (801) 272-5428 No MII	AMPROD Inc. Ken Santucci 4531 Stone Pine Court Chantilly, VA 22021 (703) 818-1353 Have MII	Garces Communications Rolado Garces PO Box 3262 Reston, VA 22090 No MII	Russell & Associates Sam Russell P.O. Box 877 Marion, VA 24354 (703) 783-2251 No MII
On Location Video Services Mel Rainer PO Box 35657 Houston, TX 77035 (713) 728-1020 Have MII	Vidicom Distributors Russ Robbins 232 W. 38th St. Houston, TX 77018 (713) 694-6400 Dealer	The Studio Russ Relyea 342 W. 200 S. Salt Lake City, UT 84101 (801) 595-8800 Have MII	Walter Arandia 4311 S. 9th St Arlington, VA 22204 (703) 521-9475 Have MII	Gardy-McGrath (Intl) Inc. Dave Gardy 8580 Cinderbed Rd., Suite 1000 Newington, VA 22122 (703) 339-8500 Have MII	Sallie Mae Charlie Hite 200 Fairbrook Dr Herndon, VA 22070 (703) 834-5737 Have MII
Project Video Gary Brewton PO Box 5850 Beaumont, TX 77726 No MII	Utah Bosworth Graves Norm Bosworth 1055 S. 700 W Salt Lake City, UT 84104 (801) 972-6128 Have MII	The Valley Channel Earl Rouse 426 N 400 E Logan, UT 84321 (801) 752-7537 No MII	AVEC Electronics Corp. John Heinke 711 Granby St Norfolk, VA 23510 (804) 627-3502 Dealer	George Mason University Susan Kehoe Univ. Drive TV Studio Fairfax, VA 22030 (703) 323-3586 Have MII	Signet Bank Mike Blacker Video Department 11013 W. Broad St. Rd. Glen Allen, VA 23060 (804) 0747-2064 Have MII
Pro Line Video Jim McConnell 2601 McHale Ct. #140 Austin, TX 78758 (512) 837-2000 Have MII	Brigham Young University Roger Gunn Communication Dept Provo, UT 84602 Have MII	Utah Valley Community College Tom Nelson 800 West 1200 South Orem, Utah 84058 Have MII	AVS Jeff Kreger 3330 Bourbon St. Fredricksburg, VA 22408 (703) 371-8324 Have MII	C. Mark Guenther 7529 McWhorter Pl.#303 Annandale, VA 22003 (703) 941-6943 No MII	Systems Research Service TM Atkins 8664 Martin Creek Rd Roanoke, VA 24018 Supplier
Pro Line Video Skip Holcombe 4778 Research Dr. San Antonio, TX 78240 (512) 690-1234 Have MII			Henry Boisvert 4225 N. Henderson Rd Arlington, VA 22203 No MII		Thomas Communications William Aylward 2550 Huntington Ave Suite 205 Alexandria, VA No MII

<p>Tuckahoe Orthopaedics Assoc. Orthopaedic Research of Virginia Mike Cockerham 8919 Three Chopt Rd Richmond, VA 23229 (804)285-7336 Have MII</p> <p>Union Theological Seminary John Coffman Media Services Dept. 3401 Brook Rd Richmond, VA 23227 (804)278-4323 Have MII</p> <p>Video Services, Inc. Jim Howell 9305 Broad Meadows Rd Glen Allen, VA 23060 (804) 346-0835 Repair</p> <p>Virginia Baptist Board Glenn Starling P.O. Box 8568 Richmond, VA 23226 (804) 672-2100 Have MII</p> <p>Vision Enterprises Michael Sustar P.O. Box 2698 Christiansburg, VA 24068 (703) 382-0451 Have MII</p> <p>WRLH-TV Eldon Brown 1925 Westmoreland St Richmond, VA 23230 Have MII</p> <p>Zion Systems Richard Hiatt 1361 Lincolnshire Dr. Harrisonburg, VA 22801 (703) 433-7700 No MII</p> <p>Washington</p> <p>Blue Mountain Broadcasting Lynelle Childs PO Box 205 College Place, WA 99324 (509)529-9149 No MII</p> <p>KEPR Don Eckis PO Box 2648 Pasco, WA 99302 (509)547-0547 No MII</p> <p>KHQ Don Carmicheal P.O. Box 8088 Spokane, WA 99203 (509) 448-4655 Have MII</p> <p>KHQ Jeff Hite P.O. Box 8088 Spokane, WA 99203 (509) 448-4655 Have MII</p>	<p>Kostov & Assoc. Multimedia Studios Michael Kostov 221 First Ave West, Ste 120 Seattle, WA 98119 (206)285-2797 Have MII</p> <p>Kramer Video Tom Kramer PO Box 22446 Seattle, WA 98122 (206) 322-6555 Have MII</p> <p>Mountain View TV Anthony Evans 1500 SE Blairmont Dr Vancouver, WA 98684 (206) 253-2588 Have MII</p> <p>National Videotape Co. Mari Scimeca 63 Clay Seattle, WA 98121 (206) 441-1182 Supplier</p> <p>Professional Services Media Rich Kraemer PO Box 4005 Tumwater, WA 98501 (206)786-1686 Have MII</p> <p>Puget Sound Power & Light Company Charles Nishida PO Box 97034 OBC-09W Bellevue, WA 98009-9734 (206) 454-6363 x3231 Have MII</p> <p>University of Washington Jack Armstrong Instructional Media Svcs Main St DG-10 Seattle, WA 98195 Have MII</p> <p>Videoland Productions Mitch McGeary 805-C College St. SE Lacey, WA 98503 (206) 491-1332 Have MII</p> <p>Washington Natural Gas John Cox 815 Mercer Street Seattle, WA 98111 (206) 622-6767 Have MII</p> <p>Washington Natural Gas Chis Nardine 815 Mercer Street Seattle, WA 98111 Have MII</p> <p>West Virginia</p> <p>Consolidated Media Systems Larry Cox PO Box 649 Scott Depot, WV 25560 (304)744-4804 Supplier</p>	<p>E.I. Dupont Jack Green 901 W. Dupont Ave. Belle, WVA 25015 (304) 357-1835 Have MII</p> <p>Seneca Communications Inc. Chuck Sizemore 1321 Dunbar Ave Dunbar, WV 25064 (304) 766-8740 Dealer</p> <p>Spectra Media Gary Simmons 2410 Woodland Dr South Charleston, WV 25303 (304)744-7725 Have MII</p> <p>West Virginia University Dept. Radio & TV Rt 10 Box 304B Ramada Rd Morgantown, WV 26506 Have MII</p> <p>WOAY-TV Jim Martin RTE 16 South Oak Hill, WV 25901 (304) 469-3361 Have MII</p> <p>WVAH-TV Raymond Beckner 11 Broadcast Plaza Hurricane, WV 25526 (304) 757-0011 Have MII</p> <p>WYVN Bill McDonnell 1 Discovery Pl Martinsburg, WV 25401 (304) 267-6060 Have MII</p> <p>WYVN Dan Taylor 1 Discovery Pl Martinsburg, WV 25401 (304) 267-6180 Have MII</p> <p>Wisconsin</p> <p>Avonix Ken Muehlbauer P.O. Box 505 3495 N. 124th St Brookfield, WI 53008-0506 (414) 783-6050 Dealer</p> <p>Avonix Bob Buss P.O. Box 505 3495 N. 124th St Brookfield, WI 53008-0506 (414) 783-6050 Dealer</p> <p>Avonix Jerry Martin P.O. Box 505 3495 N. 124th St Brookfield, WI 53008-0506 (414) 783-6050 Dealer</p>	<p>Centercom Bob Harmon 5737 W. Hemlock Street Milwaukee, WI 53223 (414) 353-2001 Have MII</p> <p>Dealer Camera Corner Inc. Earl Neville 529 N. Monroe St. Green Bay, WI 54301 Have MII</p> <p>David Larson Productions David Larson 5910 N. Lilly Road Menomonee Falls, WI 53051 (414) 252-4122 Have MII</p> <p>Eaton Corporation Jim Heise 4201 N. 27th St Milwaukee, WI 53216 (414) 449-6216 Have MII</p> <p>Excel Communications Jim Dorman 3487 N 124th St Brookfield, WI 53005 (414)786-0686 Have MII</p> <p>Firststar Corporation Frank Datzner 777 East Wisconsin Ave. Milwaukee, WI 53202 (414) 765-6228 Have MII</p> <p>Fraser Orton Productions Dennis Fraser 2150 Memorial Dr., Suite 212 Green Bay, WI 54303 (414) 494-6150 Have MII</p> <p>Moraine Park Technical College Bob Haase P.O. Box 1940 Fond Du Lac, WI 54936-1940 (414) 929-2112 Have MII</p> <p>Northeast Tech. College John Siemering PO Box 19042 Green Bay, WI 54307-9042 (414)498-5495 Have MII</p> <p>Optics & Images David Anderson 1805 E. Allouez Ave Suite 1 Greenbay, WI 54311 (414) 465-9040 Have MII</p> <p>Reimers Photo Material Co. Dan Fritz 300 E. Bay Milwaukee, WI 53207 Have MII</p>	<p>Universal Production Int'l Bob Kames, Jr. 4415 W. Forrest Home Ave Milwaukee, WI 53219 (414) 321-0874 Have MII</p> <p>University of Wisconsin Bager Football 1440 Monroe St. Madison, WI 53711 Have MII</p> <p>Vaughn Duplication Services Tom Brunhart 700 West Michigan Ave, Ste 150 Milwaukee, WI 53233 (414)276-6511 Have MII</p> <p>VIDTEK James Lillis 9235 W. Capital Dr Milwaukee, WI 53222 (414) 466-7488 Have MII</p> <p>WYOU Frank Maiale 1619 Monroe St Madison, WI 53711-2021 (608) 258-9644 Have MII</p> <p>Wyoming</p> <p>Pronghorn Productions Dudley Irvine PO Box 703 Lander, WY 82520 (307)332-9714 Have MII</p> <p>Canada</p> <p>Alberta</p> <p>EM/Media Jim Goertz #200 - 116 - 8th Ave. S.W. Calgary, Alberta T2P 1B3</p> <p>Glenrose Rehab. Hospital Randy Robertson 10230-111 Ave. Edmonton, Alberta T5G 0B7</p> <p>Lethbridge Cablenet Mark Doram 1232 - 3 Ave. South Lethbridge, Alberta T1J 0J9</p> <p>Montage Communications Michael Prysunka Lower Floor 611-10th Ave. S.W. Calgary, Alberta T2R 0B2</p> <p>Shaw Cablesystems Gene Sydor 7633-50 Street Edmonton, Alberta T6B 2W9</p> <p>Nova Scotia</p>	<p>Central Editing Services Rocky Warren 69 Walker Street Truro, Nova Scotia B2N 4A8</p> <p>Ontario</p> <p>AEC Computers Jann Teng R.R. #7 Providence Line Peterborough, Ontario K9J 6X8</p> <p>Agincourt Productions Perren Baker 20 Kinnear Court Richmond, Ontario L4B 1K8</p> <p>Asian Television Network Prikash Nadu 130 Pony Dr. Newmarket, Ontario L3Y 7B6</p> <p>Asian Television Network Shan Chandrasekar 130 Pony Dr. Newmarket, Ontario L3Y 7B6</p> <p>Atchisound Prod. Services Don Atchison 1589 Drake Ave Ottawa, Ontario K1G 0L7</p> <p>CBC - Windsor Bruce Taylor 825 Riverside Drive W. Windsor, Ontario N9A 1K7</p> <p>CFMT - CH. 47 Pip Bola 545 Lakeshore Blvd. West Toronto, Ontario M5V 1A3</p> <p>CFMT - CH. 47 Brian Herling 545 Lakeshore Blvd. West Toronto, Ontario M5V 1A3</p> <p>CFMT - CH. 47 Bill Hoenselaar 545 Lakeshore Blvd. West Toronto, Ontario M5V 1A3</p> <p>Corona Communication Doug Reynolds 500 Barrydowne Rd. Sudbury, Ontario P3A 3T3</p> <p>CKCO-TV Joe Brenner 864 King Street West Kitchener, Ontario N2G 4E9</p> <p>Edcom Multi Media Jeff Howard Production Dept. 1773 Mattawa Ave. Mississauga, Ontario L4X 1K5</p>
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General A/V Neil Watt 6889 Rexwood Road Unit #9 Mississauga, Ontario L4V 1R2	Ryerson Poly Technical Brad Fortiner 350 Victoria Street Toronto, Ontario M5B 2K3	Special Event Video Productions Jim Huber 1911 Baseline Rd #100 Ottawa, Ontario K2C OC7	Video Events John Phillips 6 Winthorpe Ave Toronto, Ontario M4K 1C9	CKTM-TV Trois Rivières 4141 St. Jean Blvd Trois Rivières, Quebec G9A 5G3	Saskatchewan Size Small Productions John Lumby 34 Degeer Crescent Saskatoon, Saskatchewan S7H 4P7
Humphries Productions Stan Humphries 93 Downey Road Guelph, Ontario N1C 1A1	Scarborough Board Alex Maropakis 52 McGriskin Road Scarborough, Ontario M1S 4G5	St. Clair College Roger Faubert 2000 Talbot Road West Windsor, Ontario N9A 6S4	Vid Vid Video Blake Robson 17 Easton Road Brantford, Ontario N3P 1J4	Premier Choix TVEC Inc. Chantal Gagnon 2100 Ste - Catherine Quest #800 Montreal, Quebec H3H 2T3	STV - Regina Brian Sather 370 Hoffer Drive Regina, Saskatchewan S4N 7A4
Image Projection John Chyurlia 15 Capella Court Unit 109 Nepean, Ontario K2E 7X1	Sheridan College Todd Hallam Tech Services 1430 Trafalgar Road Oakville, Ontario L6H 2L1	University of Toronto Ron Beardon Media Centre 563 Spadina Ave. Toronto, Ontario M5S 1A1	York University Dave Walton Stedman Bldg. 4700 Keele Street Toronto, Ontario M3J 1P3	Projet IMAGE José Forest 4565, Chemin de la Reine Marie Montreal, Quebec H3W 1W5	STV - Saskatoon Len Virog 218 Robin Crescent Saskatoon, Saskatchewan S7L 7C3
MBST Lifetime Prod. 5 DeWitte Court Markham, Ontario L3P 3Y4	Sheridan College Ken Walker 1430 Trafalgar Road Oakville, Ontario L6H 2L1	University of Toronto Ernie Lopez 119 St. George Street North Wing, Room 27 Toronto, Ontario M5S 1A1	Quebec Concept Videoscope Claude Pdpin 100 bld Antonio Barrette Joliette, Quebec J6E 1E5	SportAction Video 2323 Boul. Versant Nord Suite 204 St. Foy, Quebec G1N 4P4	Video One Systems Jim Sax 2318 Avenue C North Saskatoon, Saskatchewan Canada S7L 5X5
Meta Media Productions Andrew Ruhl 90 Yarmouth Street Guelph, Ontario N1H 4G3	Soft Science Associates Ltd. Eric Harris R.R. #1 Gore's Landing, Ontario K0K 2E0	University of Windsor Tom Fuerth Communications Dept. Windsor, Ontario N9B 3P4	CKSH-TV Marcel Aganier 340 Boul. Industriel Sherbrooke, Quebec J1L 1Z9	Universite du Quebec a Montreal - Denis Vaillancourt C.P. 8888, Succ. "A" Montreal, Quebec H3C 3P8	
Ontario College of Art George Dougherty 100 McCaul Street Toronto, Ontario M5T 1W1					

Have you double checked your listing?

If your listing is incorrect, please contact Debbie with changes etc. She will update your listing ASAP!

Phone: (800) 966-1030, (703) 339-8500, fax (703)339-0764.

If you are not currently a member of the MII Users Association of America and are interested in joining. Please fax or mail us the following information:

Company name, contact persons name, mailing address, phone and fax numbers (if available), if you have MII and which machines (make and model) you have.

Our address is:
MII Users Association of America
c/o GMG International Inc.
8580 Cinderbed Rd, Ste 1000
Newington, VA 22122
Attn: Debbie

Phone: (800) 966-1030, (703) 339-8500, fax (703)339-0764.

Monthly Survey Questions

Please respond as soon as possible, it helps all of us! Thank you!

Each month the users association will poll users on specific MII issues and concerns, publishing the results in the next newsletter. This months survey questions concern Panasonic Service Literature (Technical Bulletins, Manuals, Service Supplements, etc.).

1. How would you rate Panasonic Service Literature overall?

Excellent [] Very Good [] Good [] Fair [] Poor [] N/A []

Comments: _____

2. Have you been able to obtain, from Panasonic, whatever literature you need?

Yes[] No [] N/A []

If yes, did you receive your literature within a reasonable period of time?

Yes[] No []

Comments: _____

3. Do you feel that technical updates are readily available or distributed regularly?

Yes[] No [] N/A []

Comments: _____

4. Do you know who to contact in order to obtain Panasonic literature?

Yes[] No [] N/A []

Comments: _____

We would sincerely appreciate it if you respond to these questions, either by mail, phone or fax as soon as possible. Thank you for your input. 24 hour fax line (703) 339-0764 Phone (800) 966-1030 or (703) 339-8500 or Mail to:

MII Users Association of America
c/o GMG International, Inc.
8580 Cinderbed Rd., Suite 1000
Newington, VA 22122
ATTN: Debbie

Optional:

Name _____

Company _____

Phone _____

Requested by _____ Point of Contact _____

Company _____ Phone Number _____

Name of Production _____ Date of Production _____

Client _____ Production Company _____

Producer _____ Director _____

Talent _____ Subject of Production _____

Other Crew _____ Format(s) Used _____

[illegible]